



## United States Department of the Interior

### FISH AND WILDLIFE SERVICE

Dworshak Fisheries Complex

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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 –November, 2008**

### **Fish Management Culture**

#### *Dworshak*

#### *Spring Chinook Salmon (SCS)*

##### *Brood Year 2007 (BY07)*

At the end of the month there were 1,028,934 BY07 SCS averaging 31 fish per pound (fpp) and 121 mm (4.8 inches) total length on station. These fish are being held in A and B-Bank raceways (RW's). Water temperature averaged 47.8°F and flow averaged 500 gpm/RW. On November 12 a formalin treatment was given to all BY07 SCS to control *Trichodina Sp.* Mortality for the month averaged 0.06 percent.

##### *Brood Year 2008*

At the end of the month there were 371,084 eyed eggs of Dworshak stock incubating at Dworshak National Fish Hatchery (DNFH). Chilled incubation water temperature for the month averaged 36.7°F and the SCS are currently targeted to go on feed in April, 2008. There were also 820,000 eyed eggs of Dworshak stock transferred to Kooskia National Fish Hatchery in October for incubation over the winter. Initially, these fish will be reared at the KNFH since the DNFH nursery will be at capacity with Steelhead during this same time frame. The fish will then be transferred back to DNFH in the spring of 2009 and reared in the raceways until release in the spring of 2010.

#### **COHO SALMON (COS)**

##### *Brood Year 2007*

At the end of November there were 285,780 BY07 COS averaging 22 fpp being reared in C-bank RWs. Mortality for the month averaged 0.3 percent and no chemical treatments were administered.

**Brood Year 2008**

Spawning of BY08 Coho ended on November 12 with a total of 461 females being spawned by that date. This far exceeds previous Coho returns and spawning efforts at DNFH. The results of the effort are adequate eggs for the Coho production needs at DNFH as well as provide Clearwater River returning Coho eggs to be reared at the Eagle Creek NFH thus adhering to the recommendations of the Coho Restoration Program. These eggs are incubating in C and D-bank incubators at Dworshak using heated water to accelerate development and hatching.

**SUMMER STEELHEAD (SST)**

**Brood Year 2008**

Overall, mortality dropped off significantly in November in the SST. However, due to the high mortality throughout the summer and fall as a result of *Infectious Hematopoietic Necrosis Virus* (IHNV) and Cold Water Disease, the 2.1 million target release number for SST will not be met in the spring of 2009.

Water temperatures averaged 48.7°F and flow averaged 500 gpm/BP. All of System II was administered a formalin treatment at 167 parts per million due to the diagnosis of *Ichthyophthirius multifiliis* (ICH) by the Idaho Fish Health Center.

**RAINBOW TROUT (RBT)**

**Brood Year 2008**

By the end of the month there were 12,428 BY08 RBT averaging 3.9 (fpp) and 220 mm (8.7 inches) total length. Mortality for the month was 1.4 percent. Water temperature averaged 47.8°F and water flow was 500 gpm/BP.

The RBT in Burrow Pond (BP) 60 are diploid fish from Ennis Montana. The mortality for these fish during the month was 0.6 percent. The RBT in BP 62 are triploid fish from Hayspur, Idaho. The mortality for these fish during the month was 2.9 percent. These fish have been diagnosed with IHNV.

There were no medical or chemical treatments given to these fish during the month.

These RBT will be for Open House 2009.

## SUMMARY

Table 1. Total Production—Fish on Station (11/30/08).

SP	BY	Location	Number	Wt (lbs)	FPP	L in	L mm
COS	07	C-Bank RWs	285,780	12,997	22.0	5.1	129
RBT	08	BP 60 & 62	12,428	3,228	3.9	8.7	220
SCS	07	A Bank RWs	1,028,934	33,246	30.9	4.8	121
SST	08	System I	705,065	49,125	14.4	5.8	148
SST	08	System II	647,280	66,485	9.7	6.6	169
SST	08	System III	477,579	66,058	7.2	7.3	186
<b>Total</b>			<b>3,157,066</b>	<b>231,139</b>			

### *Kooskia*

#### ***Kooskia Trap Operations Brood Year (BY) 2008***

The trap was closed November 14, concluding Coho Salmon adult collection for the Nez Perce Tribe (NPT) Coho program. All Coho collected from KNFH were transported via truck and placed into holding pond (HP) # 2 at DNFH until spawning occurred. The Coho collected from KNFH on 11/14/08 were excess to brood stock needs and were out planted into Musselshell, Lolo, and El Dorado Creeks.

<b>Kooskia Coho Collection 2008 Summary</b>				
DATE	M	F	Jacks	Total
10/10/2008	6	18	4	28
10/14/2008	12	20	83	115
11/4/2008	63	77	20	160
11/7/2008	95	100	15	210
11/14/2008	63	80	228	371
10/23/2008	69	162	214	445
	<b>308</b>	<b>457</b>	<b>564</b>	<b>1329</b>

#### ***Kooskia Brood Year 2008***

All Kooskia Stock BY 2008 eggs are currently being incubated at KNFH on chilled well water. Eggs were switched to chilled well water November 13 as repairs were completed on the Carrier chiller unit. Eggs currently number 712,849.

#### ***Dworshak Brood Year 2008***

All Dworshak Stock BY 2008 eggs are currently being incubated at KNFH on chilled well water. Eggs were switched to chilled well water November 13 as repairs were completed on the Carrier chiller unit. Eggs currently number 811,126.

### ***Kooskia Brood Year 2007***

Kooskia Stock BY 2007 SCS number 443,027 averaging 31.7 fpp at 4.72 inches long. Growth for the month was .08 inches.

### ***Dworshak Brood Year 2007***

Dworshak Stock BY 2007 SCS number 161,968 averaging 26.0 fpp at 5.04 inches long. Growth for the month was .10 inches.

Creek water temperature averaged 38.8oF during November. A Idaho Fish Health Center (IFHC) exam conducted November 26<sup>th</sup> showed overall good fish health without the presence of *Ichthyophthirius multifiliis* (ICH). No formalin treatments were administered this month.

## **Maintenance**

### ***Dworshak***

- Electrical Projects: Repaired cool room refrigerator system in Feed Bldg; replaced defective photo cell for outside lighting control; repaired electronic gate controller for security gate; replaced Zone #2 circulating pump in Main Bldg. heating system; installed new power supply in tissue processor in Idaho Fish Health Center (IFHC); installed new switch for exhaust fan in formalin storage; repaired lighting on overpass and repaired broken conduit for alarm circuit in Mech I; repaired failed connections in 31 incubator pump in Mech I; connected and energized block heaters for the rental generator at the main Pump House.
- Energized heat tapes on vent pipes at main aeration chamber; brought up Mech I boilers for building heat and closed building louvers for winter.
- Cleaned and adjusted photocells for adult fish counter.
- Ran generators for monthly exercise.
- Vehicle maintenance repaired on: Cart III; John Deere backhoe; Dodge Caravan; Grand Caravan and installed snow plow on Dodge 1-ton.
- Fabrication Projects: A step for Spawning Room control station landing; a maintenance swivel wheeled cart/seat; hold down brackets for incoming water seals for mix cell ponds; installed box covers for new domestic water underground vales at the end of A&B bank and replaced handle on tall stand pipe in Pond #17. Cleaned and adjusted photocells for adult fish counter.
- Did preventative maintenance on Mech I and entered data into computer for Preventative Maintenance (PM) program and performed PM.
- Daily: checked Fire Maintenance pumps, filters and adjusted valves; traveling water screens and cleaned fish trap, grounds and building maintenance.
- Repaired drill motor cords.
- Replaced five fire extinguishers in IFHC.

### ***Kooskia***

- Carrier technician installed new software on the Carrier chiller unit, completing repairs on Nov. 12.

## **Meetings/Training/Travel**

### ***Dworshak***

11/13 Annual Operating Plan (AOP) meeting held at Dworshak NFH.  
11/19-20 Dr. Christine Moffitt from the University of Idaho with a small team of students and on-site with Barnaby Watten, U.S. Geological Service, Leetown Science Center in W. VA, here to begin profile testing on pond renovation project.

### ***Kooskia***

11/13 Adam Izbicki, Asst. Hatchery Manager attended the AOP meeting at DNFH.

## **Miscellaneous**

11/4 Chili Feed/Bake sale held in Main Bldg. Conference Room to kick off the Combined Federal Campaign.

## **Personnel Actions –**

**NA**

## **Safety/Wellness**

11/5 Todd Fenzel, USFWS Law Enforcement officer from Boise gave an Informative talk on his work as a Refuge Manager/Law Enforcement Officer to the staff.

## **Information/Education (I/E)**

### ***Dworshak***

Tours – (walked several visitors through nursery and spawning rooms)

Visitor Register – 39, from 7 states: WA, NY top 2 and Canada

Visitor Contacts – 16                      Volunteers - 1                      Hours – 2

Offsite programs - 8                      Contacts - 201

### **On-site:**

- Participated in annual NCITA officer elections and monthly conference call.
- Participated in Friends of Northwest Hatcheries monthly conference call and received approval for Spawn Shop clearance sale and schedule.
- Completed online Fall semester graduate courses from University Wisconsin/Stevens Point on: “*Strategic Planning for Natural Resource Managers*” and “*Making Environmental Education Relevant for Culturally Diverse Audiences*”. Courses were offered through a partnership between the NCTC and the UWSP.

- Final preparation for the National Association of Interpretation conference exhibit on the summer grant-funded 'My Woods' project.
- Completed training plans and project work review with employee.

**Off-site:**

- I/E staff attended the NAI national conference in Portland, OR for 5 days; presented a poster session for the multi-agency grant program *My Woods*, with over 50 contacts.
- Hatchery in the Classroom salmon tank setup and egg delivery, classroom discussions to Moscow (24) and Nezperce (18).
- Gytaku activity for Orofino Headstart school (27 students)
- Met with teachers at Cottonwood H.S. for new stream monitoring project
- After School Club completed the owl pellet activity (15)
- Co-facilitated a teacher workshop "*Wild About Trout in The Classroom*", with Idaho Fish & Game in Lewiston; demonstrated Dworshak National Fish Hatchery classroom incubation methods, equipment, lesson plans and activities for 14 people.
- Presented cultural history program '*Kaya - Nez Perce girl*', to Orofino kindergarten students (52).

***Kooskia***

**On-site:** 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.

**Off-site:**

- Attended the Kamiah High School fisheries/aquaculture project team meeting; received eyed egg request from Bio Tech class (coho, steelhead, Chinook and rainbow).



Larry Peltz

Complex Manager

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