



# 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 –February, 2009**

### **Fish Management Culture**

#### ***Dworshak***

#### **SPRING CHINOOK SALMON (SCS)**

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

At the end of the month there were 1,021,991 BY07 SCS averaging 24 fish per pound (fpp) and 132 mm (5.2 inches) total length on station. These fish are being held in A and B-Bank raceways (RW's). Mortality for the month averaged 0.33 percent. Water temperature averaged 40.5°F and flow averaged 500 gpm/RW. There were no medical or chemical treatments given to these fish during the month.

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

At the end of the month there were 368,470 eyed eggs of Dworshak stock incubating at Dworshak National Fish Hatchery (DNFH). Chilled incubation water temperature for the month averaged 36.6°F and the SCS are currently targeted to go on feed in April, 2009. There were also 820,000 eyed eggs of Dworshak stock transferred to Kooskia National Fish Hatchery (KNFH) in October, 2008 for incubation over the winter. These fish are being reared at KNFH through March, but will be transferred back to DNFH in early April for rearing at DNFH until release in 2010.

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

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

At the end of the month there were 282,100 BY07 COS in C-Bank RW's averaging 24 fpp and 125mm (4.9 inches) total length. Mortality for the month was 0.7 percent. Sample counts indicated a loss of growth for the month. Water temperature averaged 40.5°F and flow averaged 408 gpm/RW. On February 19, a one-hour formalin bath was given to all coho in C-bank to control parasites.

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

At the end of the month there were 904,229 BY08 COS in the nursery averaging 376 fpp and 50 mm (2.0 inches) total length. Mortality for the month was 3.9 percent. Water temperature averaged 53.7°F and flow averaged 25 gpm/tank.

## **SUMMER STEELHEAD (SST)**

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

Mortality for February remained low during the month. Reuse and the boilers remained on in System I during the month to increase water temperature (avg. 48.0°F) and fish growth to help the fish reach the target size of 200 mm. Systems II and III were run on single pass river water (avg. 40.5°F) as fish growth has been slightly higher than projected during the Fall. 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.

On February 4, 18, and 25, formalin treatments were given to all SST in system I to control *Ichthyophthirius multifiliis* (ICH).

On February 4, a one-hour formalin bath was given to all the SST in system II to control *Trichodina sp.* and to System III to control *Trichodina sp.* and *Epistylis sp.*

### ***Brood Year 2009***

The ladder was opened on February 11 for collection of BY09 winter and spring returning SST. Spawning of the winter return SST began with Take 3 on February 17. Steelhead spawning will continue every Tuesday until the end of April. The ladder will be opened intermittently throughout the remainder of the season for collection of the spring-return SST.

Eggs from Takes 1-2 were enumerated and moved into hatching jars in the nursery building during the month. Fry from these eggs will go on feed in March.

## **RAINBOW TROUT (RBT)**

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

By the end of the month there were 12,465 BY08 RBT in System III averaging 2.6 (fpp) and 251 mm (9.9 inches) total length. Mortality for the month was 6.3 percent. The fish remained on single pass river water (avg. 40.5°F). There were no chemical or medicated treatments to these fish during the month.

These RBT will be for Open House 2009.

### ***Brood Year 2009***

On February 5, 15,000 Troutlodge strain triploid eyed eggs were received at the station. These fish will be utilized for the Open House in 2010.

## SUMMARY

Table 1. Total Production—Fish on Station (02/28/09).

SP	BY	Location	Number	Wt (lbs)	FPP	L in	L mm
SCS	07	A Bank RWs	1,021,991	43,342	23.6	5.2	132
COS	07	C-Bank RWs	282,100	11,865	23.8	4.9	125
COS	08	Nursery	904,229	2,408	375.5	2.0	50
SST	08	System I	704,082	96,166	7.3	7.3	186
SST	08	System II	627,158	90,013	7.0	7.4	189
SST	08	System III	471,696	91,002	5.2	8.2	208
RBT	08	BPs 60, 62 & MCU	12,465	4,822	2.6	9.9	251
<b>Total</b>			<b>4,023,721</b>	<b>339,618</b>			

MCU = Mixed cell unit which was Burrows pond 64 before renovation.

### *Kooskia*

#### *Kooskia Trap Operations Brood Year (BY)2009*

The trap remained closed through February.

#### *Kooskia Brood Year 2008*

All Kooskia stock BY08 SCS were moved from the incubation stacks to the outside nursery tanks.

#### Summary of Kooskia Stock BY08 SCS move out

Take	Date Tanked	Number Tanked	Total Egg/Fry Mortality	% survival Eyed egg To tank fry
1	1/30/2009	51,595	3,279	94.02%
2	2/23/2009	170,992	4,008	97.71%
3	3/2/2009	295,909	4,091	98.64%
4	2/24/2009	184,585	7,415	96.20%
	<b>Total</b>	<b>706,081</b>	<b>18,793</b>	<b>96.79%</b>

#### *Dworshak Brood Year 2008*

All Dworshak Stock BY08 SCS were moved from the incubation stacks to the inside nursery tanks.

Summary of Dworshak stock BY08 SCS move out.

Take	Date Tanked	Number Tanked	Total Egg/Fry Mortality	% survival Eyed egg To tank fry
1	1/30/2008	109,000	1,000	99.09%
2	2/23/2009	74,142	858	98.86%
3	3/2/2009	313,146	6,854	97.86%
4	2/23/2009	64,173	827	98.73%
5	3/2/2009	245,964	4,036	98.39%
	<b>Total</b>	<b>806,425</b>	<b>13,575</b>	<b>98.63%</b>

***Kooskia Brood Year 2007***

Kooskia stock BY07 SCS number 442,391 averaging 29.9 fpp at 4.81 inches long. Growth for the month was .16 inches.

***Dworshak Brood Year 2007***

Dworshak stock BY07 SCS number 161,772 averaging 27.0 fpp at 4.98 inches long. Growth for the month was .07 inches.

Creek water temperature averaged 33.1°F during February. A Idaho Fish Health Center (IFHC) exam conducted February 26 showed overall good fish health without the presence of *Ichthyophthirius multifiliis* (ICH). No formalin treatments were administered this month. Low growth was due to cold temperatures and pond icing. Density index remains at .23 due to minimal growth, so the Burrow's Ponds (BP's) will not be split into raceways (RW's) prior to release. Sample counts were taken to determine actual fish size.

**Maintenance**

***Dworshak***

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***Kooskia***

- Cleaned biofilter bays in preparation for BY08 SCS, Feb. 3-5.
- Started up biofilter aeration system and sludge drive system.
- Replaced float switches on biofilter drain booster pump system.

**Meetings/Training/Travel**

***Dworshak***

- 2/11 The Annual Operating Plan (AOP) meeting was held in the Conference Room.
- 2/17-19 Rick Allain, Animal Caretaker, traveled to Sacramento, CA for a Wage Grade Committee meeting.
- 2/17 Larry Peltz, Complex Manager traveled to Lewiston, ID to give a presentation to the Lewiston Chamber of Commerce on hatchery operations.
- 2/17 Larry Peltz gave an after hours tour to officials from the U.S. Army Corps of Engineers (COE) and Bonneville Power Administration (BPA).

- 2/18 Mandatory Environmental Systems Training was presented to all staff by Chip Goyette from PRISM, Inc., and Dan Forney from Region 1. They were here for two days touring Dworshak & Kooskia NFH's and assisting in setting up a Environmental Management Team.
- 2/18 Don Redman, COE visited and toured the hatchery to familiarize himself with the facilities operations.
- 2/18 Penny Hasenoehrl attended a CFC Agency training workshop in Lapwai, ID.
- 2/19 Green card purchasing class was taught by Chip Goyette to purchase card holders and employees responsible for filling out purchase requests.
- 2/24-26 Joan Sperber, Admin Officer, traveled to Portland, OR for financial training at the Regional Office.
- 2/25 Laura Kessel, Idaho Fish Health Center Fisheries Biologist, gave a presentation to the Production staff on field disinfection procedures.
- 2/23-3/5 Lou Ann Lasswell, Nez Perce Tribe (NPT), Fisheries Worker, traveled to Shepherdstown, WVA for a course, "*Coldwater Fish Culture.*"
- 2/26 Larry Peltz and Ed Larson (NPT) traveled to Walla Walla, WA for a Memorandum of Agreement (MOA) meeting with the COE.

***Kooskia***

- 2/9 Adam Izbicki, Asst. Hatchery Manager attended the Supervisor's meeting at DNFH.
- 2/11 Adam Izbicki attended the AOP meeting at DNFH.
- 2/19 Chip Goyette, Dan Forney, Jill Olson and Mark Drobish met with Adam Izbicki to discuss the National Pollutant Discharge Elimination System Permit issues.

**Miscellaneous**

- 2/25 February birthdays were celebrated in the Conference Room with FRO department furnishing cake to staff.

**Personnel Actions –**

**Safety/Wellness –**

- 2/10 Penny Hasenoehrl taught a CPR/AED/First Aid/Bloodborne Pathogens Class. Employees receiving their certificates were: Steve Bradbury, Thomas Trock, John Vargas, Susan Sawyer, Dave Trainor, Laura Kessel, Mark Bright, Mark Drobish & Wayne Hamilton.
- 2/12 Dr. Vanessa Brown, a physician from Clearwater Valley Hospital gave an all staff presentation on cholesterol. She also gave one-on-one personal lab interpretation readings to staff who had had their blood drawn in Feb.

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

## ***Dworshak***

Tours – 1 for 12 people(volunteer orientation)

In addition, many casual visitors viewing spawning were invited by staff to visit the incubation room to watch the procedures, but no formal guided tours given.

Visitor Register – 118 (from 6 states, top 2 are WA-28 and MT-17)

Visitor Contacts – 13

Volunteers – 18      Hours – 51

Website contacts – (data not available)

### **On-site:**

- Participated in regional work group, "Let's Go Outside," conference call, staff newsletter briefing and format change (Monday Morning Outside), drafted interviews for staff bio's.
- News releases for volunteer orientation and spring steelhead spawning.
- Coordinated and confirmed school tours, groups and volunteer needs scheduling.
- Conducted annual volunteer training/refresher for 12 participants.
- Participated in Environmental Management System team meeting and on-site training.
- Continued working with designer and VSC staff in the Region 1 office to complete final draft of hatchery brochure.
- Coordinated staffing, activities and display for Idaho Sportsmans Show in Boise next month.
- Provided response to RO request for youth employment projects and programs in need of funding from DOI stimulus package proposal (*summer youth work program CRYP and Kamiah H.S. aquaculture project*).

### **Off-site:**

- Coordinated two Earth Day pre-event planning meetings in Orofino; conducted school followup for scheduling.
- Attended semi-annual North Central Idaho Travel Assoc. board retreat at Clearwater River Casino, Lewiston.
- Set up Hatchery in the Classroom (HIC) equipment at 4 schools (Juliaetta, Clearwater Valley, Colton, Cottonwood assist).
- Delivered eyed steelhead eggs to 3 HIC projects using their own equipment (Troy, McSorley Elem., Kamiah High School) and gave short program overviews/presentations to 13 + 48 + 18 students at each school.
- Met with Idaho Fish & Game – Clearwater fish hatchery staff about self-guided tour route designs, interpretive signing, viewing ponds, etc.
- Met with *My Woods* planning team at PCEI in Moscow, for 2009 scheduling of summer activity programs (same as past 2 summers with 4 field trips, 2 coordinated by hatchery I/E staff)

## ***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, when it wasn't snowed in or ponds frozen.

Website contacts: (data not available)

### **Education and Outreach projects:**

- Delivered fish food and classroom lesson plans for those raising Chinook as part of the HIC projects
- Set-up Kooskia Elementary HIC tank and assisted with Kamiah Elem. Project.
- Worked with Kamiah school district and teachers to draft science fair rules, guidelines and judging criteria for this years' event. I/E staff will help judge entries.
- Submitted final draft feature story, photos on Art Broncheau to FWS fisheries magazine "*Eddies*", for spring issue in April.



Larry Peltz

Complex Manager

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