



# 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 – May, 2011**

### **Fish Management Culture**

#### *Dworshak*

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

##### ***Brood Year 2010 (BY10)***

On May 10-11, there were 846,144 BY10 SCS moved from Burrows ponds (BPs) 17, 19, 23, 25, and 27 into raceways (RWs) 1-9. These fish were pumped from the BPs and inventoried through the Vaki fish counter. They will be inventoried again in August by the marking crew. At the end of the month there were 840,889 BY10 SCS on station averaging 420 fish per pound (fpp) and 51 mm (2.0 inches) total length. Mortality for the month averaged 0.62 percent and water temperature averaged 44.3°F in the BPs/RWs.

#### **FALL CHINOOK SALMON**

##### **Brood Year 2010**

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 68,000 FCS which received PIT tags and were transported to Couse Creek on the Snake River during the month. These fish were approximately 135 fpp at time of transport. Tagging of all the FCS is being done by BioMark staff.

At the end of May there were 252,000 FCS on station averaging 198 fpp and 65 mm (2.6 inches) total length. Mortality for the month was 0.2 percent and water temperature in the RW's averaged 43.8°F during the month.

## COHO SALMON (COS)

### *Brood Year 2010*

On May 17 there were 283,147 BY10 COS transferred from Kooskia NFH to Dworshak. At the end of the month there were a total of 575,427 COS averaging 132 fpp and 71 mm (2.8 inches) total length on station. Mortality was 0.13 percent and temperature averaged 43.7°F for the month.

## SUMMER STEELHEAD (SST)

### *Brood Year 2011*

On May 25 there were 186,315 SST from Take 1 moved into BPs 47 and 49. At the end of the month there were 185,157 SST in BPs averaging 206 fpp and 61 mm (2.4 inches) total length. Mortality was 0.61 percent and temperature averaged 49.8°F for the month.

One nursery tank of SST in Take 1 was diagnosed with *Infectious Hematopoietic Necrosis Virus* (IHNV) and destroyed. Sediment load in all the tanks decreased during the month. On May 31 there were 471,760 fry from Take 8 moved from the incubation trays to the nursery tanks previously occupied by Take 1.

At the end of the month there were 2.1 million BY11 SST on feed in the nursery (Takes 2-8). There were approximately 350,000 eggs from Take 8A (spawned April 19 and chilled to 43°F) in incubation trays in B-bank at the end of the month. Boilers were turned off May 18 for the annual power outage and unheated reservoir water was used for the remainder of the month. Nursery water temperatures averaged 52.4°F for the month.

## SUMMARY

Table 1. Total Production—Fish on Station (05/31/11).

SP	BY	Location	Number	Wt (lbs)	FPP	L in	L mm
SCS	10	RWs 1-9	840,889	2,004	420	2.0	51
FCS	10	RWs 24, 26, 28	252,000	1,275	197.6	2.6	65
COS	10	RWs 17, 18, 19, 20	575,427	4,355	132.1	2.8	71
SST	11	Incubation Trays	350,000	Eyed Eggs			
SST	11	Nursery	2,123,193	5,555	382	2.0	50
SST	11	System I	185,187	899	206.0	2.4	61
SST	11	SST on feed Tot/Ave	2,308,380	6,454	357.7	2.0	51
<b>Total Fish/Eggs on Station EOM</b>			<b>3,485,807</b>	<b>12,084</b>			

- On May 20<sup>th</sup>, water flow to the nursery was interrupted in conjunction with circuit maintenance. Water flow was restored and no fish were lost due to some calm and quick problem solving. Thanks Jack!

### *Kooskia Adult Trap Operations Brood Year 2011*

On May 5, the weir panels were placed back in Clear Creek and Clear Creek flows increased through the trap. The weir panels had to be raised and out of the water two days during the month due to high flows and large amounts of debris coming down the creek. We did not see any adult Chinook in May. At the end of the month Clear Creek

flows are still high but we are seeing less debris and the water has cleared. There is still a lot of run off to come.

***Kooskia Brood Year 2010***

On May 10, we outplanted 49,887 BY10 Kooskia SCS from BPs 1-5. The average size was 115 fpp at 3.07 inches (78 mm) length. The outplanting was coordinated with Steve Rogers at the Nez Perce Tribal Hatchery (NPTH) using their truck and driver Wayne Penny. We really appreciate their willingness to help with transporting the fish to Cedar Flats for release. Numbers released can be seen in the table on the last page.

Fish on station the end of the month was 659,202 fry with average size of 93.2 fpp at 3.30 inches (84 mm) length. Total feed consumed for the month was 2,579 lbs. Mortalities for the month totaled 679.

***Coho Brood Year 2010***

On May 17, BY10 Coho fry on station numbered 283,147 with an average size of 147 fpp at 2.83 inches (72 mm) length. These fish were transported in two loads to the DNFH using the NPTH tanker truck and driver, Wayne Penny. Coho personnel assisted with loading and unloading. Total weight transported was 1,589 lbs.

Burrows Pond Table

Burrows Pond	Total Fish before out planting	Total Fish out planted	Total Fish in each Burrows Pond
P1	119,966	9,051	110,915
P2	118,865	10,258	108,607
P3	118,357	10,373	107,984
P4	118,805	10,086	108,719
P5	120,370	10,109	110,261
P6	112,716	0	112,761
Totals	709,079	49,877	659,202

**Maintenance**

***Dworshak***

- A new battery charger was installed (contractor) for the backup generator (i.e. Genset #3) for the main pumps providing water from the North Fork Clearwater River.
- The tires were replaced on the Fish Truck.
- Pressure gauges were replaced for pumps.
- The garbage disposal was repaired in Quarters #1
- Engine oil was changed in the Davey Fire Pump.
- Preventative maintenance: PW-4 Pressure Washer Honda; on the all three System I pumps (sump); the 1996 Ford L8000; electric Cushman carts; eplaced 4 tires on the 1992 Ford LT9000.

- The air filter was replaced on the Fish Tank Circulation Pump on the 1992 Ford LT9000.
- The Orofino Body shop replaced broken tail lights and drivers side door handle on one of the Ford Ranger shop trucks .
- Monthly inspections on all fire extinguishers completed.
- Electrical outlets in the nursery were completed for safe use of scales and for the irrigation system.
- The off-line settling basin was vacuumed out and the solids transferred to the drying beds.
- The annual power outage was conducted on May 19<sup>th</sup> and commercial circuit breaker maintenance occurred on the 19<sup>th</sup> and 20<sup>th</sup>.
- Fabricate two ea. ½ X 3 X 6 inch lifting eyes to lift channel pump.
- Straighten the damaged/bent air cleaner frame for new compressor.
- Picked up finished canvas top for the VAKI fish counting trailer and continued fabrication on the trailer.
- Repaired broken parts on Kalamazoo Saw.
- Thread and construct 4 inch threads on aluminum pipe for water seals at end of “B” Bank raceways. Water seals installed at A and B bank.
- Fabricate fish moving hoses (20 ft.) with male/female ends.
- Mount a bulletin board to the wall in the area across from Penny’s desk.
- Replace SYS I pump house lockset. Rekey 3 locks. Order extra locksets for future maintenance.
- Rebuilt system III channel pump installed.

### *Kooskia*

- Kenny Simpson has been working on ordering and fixing deficiencies identified during the Environmental Compliance and EMS Audit conducted in April.
- Hung fishing signs on Clear Creek.
- Domestic water samples were collected and transported to Anatek Labs. They were later reported to be clean of coliforms. UV Filtration systems are working.
- Weir dropped into Clear Creek and increased Clear Creek water flows through the trap for trapping Adult Chinook.
- Housing Contract was sent to Ed Larson for review and evaluation.
- DMR water samples collected and taken to Anatek Labs.
- Loaded Spring Chinook juveniles onto NPTH truck for transport to Cedar Flats for release.

### **Meetings/Training/Travel**

#### *Dworshak*

5/2-11 Michael Ren, Mechanical Engineer from MWH Americas Inc. and Shantanu Shah, Electrical Engineer from MWH Canada Inc. were on site inspecting and reviewing electrical components at the hatcher from May 2<sup>nd</sup> -11<sup>th</sup>. Part of the focus of their visit was on the Arcflash study stemming from our history of electronic malfunction and “blowups” associated with the boilers in Mechanical II building.

- 5/4-5 Retirement training attended at Dworshak Dam, hosted by U.S. Army Corps of Engineers (COE), most of the staff attended one day or the other.
- 5/6 Larry Peltz, Complex Manager, Jill Olson, Fisheries Biologist and Mark Drobish, Hatchery Manager met with Idaho Department of Water Resources Staff to discuss water measurement and water rights issues associated with Dworshak Hatchery operations.
- May 9 Nate Wiese attended a Database Meeting in McCall. The development of this database is to move all hatcheries into a standardized data collection and reporting system.
- May 10 Larry Peltz, Mark Drobish, Nate Wiese, Asst. Hatchery Manager and Adam Izbicki met with Nez Perce Tribe (NPT) staff to discuss SRBA issues.
- May 11 Larry Peltz, Mark Drobish and Jack Christiansen, Aquatics Engineer met with Bonneville Power Administration (BPA) staff to discuss Dworshak Hatchery issues.
- May 11 The Army Corps of Engineers, Nez Perce Tribe, Environmental Protection Agency and the Fish and Wildlife Service participated in a conference call to discuss changes to the Federal Facility Compliance Agreement.
- May 18 Larry, Mark and Jack met with Idaho Department of Fish and Game (IDF&G) Commissioners and staff to discuss hatchery programs and issues.
- May 23 Larry attended a Clearwater County Commissioners hearing on the Dworshak Reservoir nutrient enrichment project.
- May 23 Larry attended a public meeting hosted by the Idaho Department of Fish and Game on the Dworshak Reservoir nutrient enrichment project.
- May 24 Larry, Mark, Jack, Adam, Nate and Jill met with BPA staff to discuss potential energy conservation projects.
- May 25 Larry and Jack traveled to Spokane and met with EPA staff to discuss solution to NPDES issue.
- May 27 Larry and Jack had teleconference with BPA to discuss energy conservation projects. BPA is interested in funding approximately \$1 million in projects.
- Cindy Yenter and Keith Franklin, Idaho Department of Water Resources visited the hatchery to discuss permitting as well as specifications for measuring flow. Cindy and Keith provided feedback and some recommendations regarding our current methodology.

### ***Kooskia***

- May 3 Meeting with Stacy Springer to install and look at the operation on the IDF&G Snake Basin hatchery information system.
- May 19 Budget meeting with Ed Larson at KNFH.
- May 20 Travelled to DNFH to work with Adam on inputting DMR data.
- May 23 Met with Jack Christensen and discussed fabrication of a new pump manifold for the lift pumps which move reuse water from the indoor vat room to the Biofilter. He put me in contact with Gateway Materials, Lewiston, Idaho. They will be sending up a person to evaluate fabrication of a new manifold on June 1.

May 25 Meeting with the owners of the property that provides access to the Screen chamber and creek intake for the hatchery to sign the MOU.

## **Miscellaneous**

### **Safety**

- 5/16 Staff completing CPR/AED/First Aid/Bloodborne Pathogens class: Laura Sprague, LouAnn Lasswell, AJ Sisto, Ed Larson, Terry Weeks, Rick King, Ben Greene, Tui, Luke Gauthier & Frank Mullins.
- 5/18 Dave Hechtner from Oxarc gave a presentation on fire extinguishers with staff viewing a video and hands on training outside.

### **Personnel Actions – None**

### **Visitors –**

**Dworshak** - 87 visitors signed in on the Visitor Register.

- The Annual Kid's Fishing Day was held at the Tunnel Pond on May 14 in conjunction with the NPT. Despite the forecast, the weather was great and the 58 kids that participated had an easy time of catching fish.
- The Annual Veteran's Fishing Day was hosted on May 25<sup>th</sup> and the Veterans also had a great day of fishing.

### **Kooskia**

No guests signed our visitor log book this month. A contributing factor is the location of the book. Hatchery Personnel are trying to keep a number count of visitors on the grounds. We had 300 visitors for the month by the manual count.

May 18 & 19 KNFH was host to 2<sup>nd</sup> & 3<sup>rd</sup> graders from Kooskia and Kamiah School Districts. Students were instructed in anadromous fish life cycles and feeding regimens at the hatchery. We evaluated the weight gain differences between people and fish and why fish don't wear clothes. Art Broncheau provided the students with a Native American Tour of the Looking Glass Encampment.

May 30 The Nez Perce had a remembrance ceremony at the hatchery for the Joseph Wilson family and several other families that have lost family members. There were 75 people in attendance.



Larry Peltz  
Complex Manager

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