



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 – June, 2010**

Fish Management Culture

Dworshak

SPRING CHINOOK SALMON (SCS)

Brood Year 2009(BY09)

At the end of the month there were 1,121,694 BY09 SCS in A and B bank raceways (RW's) averaging 126 fish per pound (fpp) and 76 mm (3.0 inches) total length. On June 16, approximately 115,000 SCS from circular tanks in RW 15 were moved into RW 12. On the same day a total of 112,000 SCS from rectangular tanks in RWs 13-14 were moved into RW 11. Overall mortality was 0.2 percent and water temperature in the RW's averaged 44.5°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 75,000 FCS which received PIT tags and were transported to Couse Creek on the Snake River during the month. These fish were approximately 215 fpp at time of transport. There were also 70,000 FCS at 215 fpp which were PIT Tagged and released in the Clearwater River at Big Canyon Creek. All the FCS marking and transport is being done by BioMark staff.

At the end of the month there were 35,000 FSC on station averaging 215 fpp and 63 mm (2.5 inches) total length. Mortality for the month was 0.1 percent and water temperature in the RW's averaged 44.5°F during the month.

COHO SALMON (COS)

Brood Year 2009

At the end of the month there were 338,968 COS on station averaging 101 fpp and 77 mm (3.0 inches) total length. Mortality was 0.33 percent and temperature averaged 44.5°F for the month. On June 1-2-3 a Chloramine-T treatment was done on coho in both ponds for Cold-water disease. There appeared to be a slight reduction in mortality after the treatment.

SUMMER STEELHEAD (SST)

Brood Year 2010

Steelhead from Takes 3-4 (500,000 fish) from the nursery were moved outside to Burrows ponds (BPs) in Systems I and III. 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). Survival of Takes 1-4 from eyed egg to ponding averaged 93 percent.

At the end of the month there were 1.5 million SST from Takes 5-10 in the nursery which averaged 168 fpp and 65 mm (2.6 inches) total length. Mortality for the month was 1.1 percent and water temperature averaged 53.9°F.

At the end of the month System I had 915,507 SST from Takes 1-4 which averaged 64 fpp and 90 mm (3.6 inches) total length. Mortality for the month was 0.08 percent and water temperature averaged 48.6°F.

At the end of the month System III had 131,326 SST from Takes 1-4 which averaged 63 fpp and 91 mm (3.6 inches) total length. Mortality for the month was 0.23 percent and water temperature averaged 44.5°F.

RAINBOW TROUT (RBT)

Brood Year 2010

On June 15 the RBT were inventoried and split from two circular tanks to four in the incubation room. At the end of the month numbers from the inventory were 8,663 triploid RBT averaging 57 fpp and 90 mm (3.5 inches) total length. Mortality for the month was 0.2 percent. These RBT will be for Kids Fishing Day in 2011.

SUMMARY

Table 1. Total Production—Fish on Station (06/30/10).

SP	BY	Location	Number	Wt (lbs)	FPP	L in	L mm
FCS	09	B-Bank RWs	35,000	163	215.0	2.5	63
SCS	09	A-B Bank RWs	1,121,694	8,890	126	3.0	76
COS	09	BPs 51& 53	338,968	3,336	101.6	3.0	77
SST	10	Nursery	1,499,693	8,931	167.9	2.6	65
SST	10	System I	915,507	14,396	63.6	3.6	90
SST	10	System III	131,326	2,083	63.0	3.6	91
RBT	10	Incub. Circ Tanks	8,663	152	57.0	3.5	90
Total			4,050,851	37,951			

Kooskia

Kooskia Trap Operations BY10

Trapping of BY10 SCS adult brood stock continued through June. On June 3 the weir was raised and the trap closed due to high water, and on June 7, a tree lodged in the weir. On June 10, the tree was removed. On June 13, the trap was reopened and the weir lowered to resume trapping. The trap was closed June 29, as brood stock goals were met. BY10 Adult SCS collection is summarized below.

Kooskia SCS Adult Trapping Summary BY 2010.										Total: 807		
Date	Trucked to DW			Natural passed			Trap Morts			Surplus To NPT		
	ADULT	JACK	T	ADULT	JACK	T	ADULT	JACK	T	ADULT	JACK	T
5/20/2010	111	0	111			0			0			0
5/25/2010	23	0	23			0			0			0
6/7/2010	55	8	63			0			0			0
6/22/2010	127	6	133	2		2			0			0
6/23/2010	89	6	95	1		1			0			0
6/28/2010	128	2	130	1		1			0			0
6/29/2010	148	2	150	2		2			0			0
6/30/2010	91	3	94	1		1	1		1			0
Total:	772	27	799	7	0	7	1	0	1	0	0	0

Kooskia Brood Year 2009

Kooskia Stock BY09 SCS number 649,637 averaging 105.6 fpp at 3.16 inches long. Growth for the month was .97 inches. All Kooskia stock SCS are being reared in the outside BPs on May 24. The ponds are currently on reuse with well water makeup. The reuse water temperature averaged 51°F during June. An Idaho Fish Health Center (IFHC) exam was conducted June 2. Low levels of Costia were found. A 12 hour 50ppm formalin drip was administered June 18. On June 28 another IFHC exam showed low levels of ICH on the fish. Weekly formalin drip treatments were begun July 2nd.

ARRA/ Projects:

Floodwall and Weir Replacement project: Lan Pacific personnel arrived June 21st. They took delivery of the new Obermeyer weir and began installing the new weir's pneumatic control panel. Knight Construction is scheduled to begin the floodwall construction July 19th.

Egg recirculation system and well rehab:

Work continued on constructing the new reservoir tower. The new packed columns, heat exchanger, and plumbing were installed in the head tank. Work began on the incubator stack area with prep work for the epoxy coatings. Electrical work also continued with the replacement of the hatchery building electrical service panel.

Maintenance

Dworshak

- Electrical projects: Troubleshoot and repaired alarm points for System operations; repaired problems with alarms in Mech I; installed new light switch and replaced air handler in Furnace Room; repaired pressure washer circuit in Nursery; installed new 480v and 120v receptacles in A bank; repaired Aqua pump in Nursery; assisted Whitney Controls with new flow meter and circuits in Main Pump house; connected and energized circuit for vacuum de-gassers in A bank; prepped circuit for portable pumps in clarifiers to aeration chamber.
- Fabrication: sign for propane re-fueling instructions; an electrical disconnect box for Nursery Room clarifiers.
- Repairs: Replace hot water tank in House 32 and repaired bad wire; broken sprinklers which included piping and control box; latch on roll up door; exhaust fan in Incubator Room; broken irrigation pipe.
- Pumped water from man holes and underpass sump;
- Cleaned and greased hot water re-circulating pump motors in Mech II.
- Closed overflow drains and adjuster water for Nursery.
- Hauled Chinook tanks, cut trees from housing and old cabinets to COE.
- Hauled adult Spring Chinook from KNFH to DNFH.
- Removed tanks from Chinook raceways.
- Worked with University of Idaho students on their mix cell project. Installed condensation drain in Spawning Room.
- Repaired broken ladder on truck; modified RW's for T handle lock-out; serviced hatchery carts and vehicles mounted hose racks in Incubator Room and attached I/E signs to entrance gate and kiosk.
- Assisted A & A Septic with pumping sludge in System I.
- On a daily basis checked Main Pump House and Fire Maintenance Pump House, grounds and building maintenance.

Kooskia

- Construction on the new quarters was completed this month with the installation of the deck, lawn, and gutters. Marv Henry conducted final

inspection July 1, 2010. Some small punch list items will be completed by Holcomb Construction and then the contract will be finalized.

Meetings/Training/Travel

Dworshak

- 6/2 Tribal Access Meeting attended here at the hatchery by Larry Peltz, Complex Manager and Mark Drobish, Hatchery Manager.
- 6/8-9 Richard Hannan, Assistant Regional Director of Fisheries (ARD) and Rich Johnson, here to tour DNFH as well as meet with hatchery, Fisheries Resource office and Idaho Fish Health Center staff.
- 6/2 & 22 Hatchery Evaluation Team (HET) meetings held here at Dworshak.
- 6/14-16 Brian Vinci, Freshwater Institute visited the hatchery to assist Kelly Stockton with velocity data collection on the mixed cell units. Brian also visited with hatchery staff to discuss potential modifications to the hatchery to maximize water utility using serial reuse in circular tanks. Kelly Stockton, University of Idaho graduate student completed the particle analysis component of her study on the experimental mixed cell ponds during the month.
- 6/14-15 Jack Christiansen attended Value Engineering Meeting at the CH2MHill Office in Boise for the hatchery effluent study.
- 6/16 Larry Peltz and Jack Christiansen participated in Value Engineering Teleconference.
- 6/17 Carla Fromm, Environmental Protection Agency visited the Dworshak Hatchery. A formal inspection was not conducted; however, changes in operations of the hatchery and infrastructure modifications were reviewed and discussed.
- 6/17 & 18 Jill Olson, Fisheries biologist attended the Idaho Fish and Game hatchery managers workshop which included a session on National Pollutant Discharge Elimination System with emphasis on Discharge Monthly Reporting.
- 6/18 Larry Peltz, Jack Christiansen & Jill Olson participated in Value Engineering conference.
- 6/25 OSHA inspectors on-site for a surprise inspection. Howard Burge, Fisheries Resource Office Project Leader, Terry Weeks, Maintenance, Mike Bisbee, Production and Jack Christiansen gave them a tour of the facility. Their final report will be submitted to Larry Peltz, Complex Manager.
- 6/30 Larry Peltz attended a public information meeting hosted by Idaho Fish & Game on Dworshak Reservoir Nutrient Enrichment Project.

Kooskia

- 6/1: Paul Hayduk (USFWS region 1 ARRA coordinator) visited the hatchery to check on the progress of the two ongoing ARRA projects.
- 6/7 Rich Hannan and Rich Johnson toured KNFH and met with staff.

Miscellaneous

Personnel Actions –

- 6/1 Monique Stamper started working full-time to accommodate Production Dpt. needs.
6/4 Rob Bohn, EOD on a full-time Animal Caretaker.

Safety/Wellness –

Information/Education (I/E)

Dworshak

Tours - 1 People - 12

Register – 161

Visitors from 14 states (top 3: WA-21, CA-8, tie MT, AZ, & MD-7) and 1 country (Canada-4)

Visitor Contacts – 0

Volunteers – 0 Hours – 0

Website Visitors – data not available

On-site:

- Coordinated travel plans for Earth Partnership for Schools' RESTORE Institute, and prepared documents to spend grant funds for Russell Elementary Schoolyard Habitat Restoration Project.
- Continued planning for Idaho Water Camp teacher workshop.
- Planned activity for Orofino Farmers Market program.

Off-site:

- Facilitated fisheries lesson for Cavendish Elementary (22 students)

Kooskia

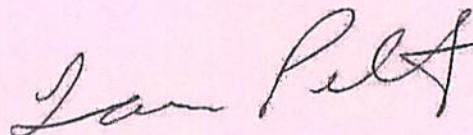
No visitors signed the guest book. No guided tours, but many visitors stopping to check the trap, see the big fish, and take a look around the hatchery grounds.

On-site:

NA

Off-site:

NA



Larry Peltz
Complex Manager

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