



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 –August, 2011**

Fish Management Culture

Dworshak

SPRING CHINOOK SALMON (SCS)

Brood Year 2010 (BY10)

From August 4-11 BY10 SCS were adipose fin (AD) clipped, inventoried, and split from nine raceways (RWs) into 24 RWs. This work was done by the Columbia River Fisheries Program Office. There were also 126,106 fish which received coded wire tags (CWTs) to study contribution to the fishery. At the end of the month there were 1,049,764 BY10 SCS on station averaging 94 fish per pound (fpp) and 84 mm (3.3 inches) total length. Mortality for the month averaged 0.55 percent and water temperature averaged 47.6°F in the RWs.

Brood Year 2011 (BY11)

Spawning of BY11 SCS began August 9 and ended August 30 for both Dworshak and Kooskia broodstock. Dworshak took eggs from a total of 410 females. Eggs from Take 1-3 (295 females) are being incubated in A/B banks on chilled water averaging 43°F. Eggs from Take 4 (115 females) are in C bank on the secondary water supply averaging 46°F.

Eggs from Take 1 (33 females) of Kooskia stock are being incubated at Dworshak and will later be given to Clearwater Hatchery from IDFG for their Clear Creek program. Eggs from Kooskia stock Takes 2-3-4 (223 females) were transferred directly to Kooskia on spawning day using Vexar tubes inside of coolers. Eggs were disinfected with iodophor before leaving Dworshak.

After egg targets were met for Kooskia NFH on August 30, Dworshak staff continued spawning Kooskia stock to supply Clearwater State Fish Hatchery with green eggs from 81 females. These eggs are being incubated at Dworshak instead of being transported to Clearwater Hatchery and are on 46°F water. After eye-up, the eggs will be transferred to the Clearwater Hatchery.

COHO SALMON (COS)

Brood Year 2010

Inventory on the BY10 COS was done on August 4. At the end of the month there were a total of 334,310 COS averaging 67 fpp and 89 mm (3.5 inches) total length on station. These fish are in six RWs in B-bank. Mortality was 0.6 percent and temperature averaged 47.6°F for the month.

SUMMER STEELHEAD (SST)

Brood Year 2011

All BY11 SST were moved out of the nursery by August 25, totally 2.5 million for the season. During the month there were 756,885 SST moved outside either through the marking trailer or directly into a Burrows pond (BP). These fish averaged 120 fpp and 73 mm (2.9 inches) total length. The fish moved from the nursery to the marking trailer were AD clipped by the crew from the Columbia River Fisheries Program Office. The fish moved directly to BPs were not fin clipped and part of the Harvest Settlement Agreement with the Columbia River Basin tribes. There were about 220,000 unclipped SST on station at the end of the month. These fish will be inventoried in September when they are split into other ponds. Mortality was 1.4 percent in the nursery and temperature averaged 50.8°F for the month.

During the month SST from Takes 3-4-5-6 were split from System I to System II using the Heathro fish pump and Vaki fish counter. There was a 97 percent survival from the AD clipping trailer inventory to splitting these fish.

At the end of the month there were a total of 2,259,053 SST in the BPs averaging 49.9 fpp and 98 mm (3.9 inches) total length. Mortality was 0.8 percent and temperature averaged 50.5°F in System 1 (reservoir water) and 47.4°F in Systems 2 and 3 (river water).

SUMMARY

Table 1. Total Production—Fish on Station (08/31/11).

SP	BY	Location	Number	Wt (lbs)	FPP	L in	L mm
SCS	10	RWs 1-15; 22-30	1,049,764	11,204	94	3.3	84
SCS	11	Incubation Trays	1,965,000	750	Eggs	Eggs	Eggs
COS	10	RWs 16-21	334,310	4,977	67.2	3.5	89
SST	11	System I	992,590	13,000	76.4	3.3	85
SST	11	System II	958,205	22,371	42.8	4.1	103
SST	11	System III	308,258	9,935	31.0	4.5	115
SST	11	SST on feed Tot/Ave	2,259,053	45,306	49.9	3.9	98
Total Fish/Eggs on Station EOM			5,608,127	62,237			

Kooskia

Kooskia Adult Trap Operations Brood Year 2011

Total adults needed for brood stock were collected in July, but the Clearwater Fish Hatchery was short collecting adults at the South Fork trap. The Kooskia National Fish Hatchery adult trap operated through August 6. Adults were sorted two times in August. There were 126 total fish interrogated for the month; 57 adult males, and 69 adult females. The Idaho Fish and Game (IDF&G) picked up and transported the adults to the Clearwater Fish Hatchery for spawning. Total adults trapped at KNFH this year was 957.

Kooskia Brood Year 2011

Kooskia NFH adult spring Chinook spawning at Dworshak National Fish Hatchery (DNFH) started Tuesday, August 9, and continued every Tuesday through the end of August. Take 1 was incubated at DNFH because the incubation chiller at KNFH would not operate in the cool of the evening. Design specs on the chiller were only for winter operation. The manufacturer was contacted and allowed some plumbing modifications so it would operate during the summer also. Guardian Plumbing & Heating performed the needed valve installation and the chiller has operated without any problems at a temperature between 39 to 41°F. Egg Takes 2-4 were transported to KNFH as fertilized eggs and will be shocked and enumerated at KNFH this year for the first time. Egg take numbers can be seen in table one on the last page. The ELIZA results for takes one and two were sent to the hatchery and were higher than expected at 5 culled out of 33 in take one for 15%, and 8 out of 58 in take two for 14%.

Kooskia Brood Year 2010

Fish on station the end of the month was 629,022 fry with average size of 43.4 fpp at 4.25 inches (108 mm) length. Total feed consumed for the month was 1,156 lbs. Mortalities for the month totaled 548. We were able to slow the growth for the month. Dr. Marilyn Blair from the Idaho Fish Health Center (IFHC) was out to do the monthly health evaluation. She stated “the fish looked good but had no fat”. This is a concern for her as

fish go into the winter. We have started to increase the amount of food fed daily and will be evaluating the rate of growth in the middle of the month.

Spawn takes at DNFH with eggs to KNFH.

Date	Take	Females Spawned	Estimated eggs At KNFH
8/16/2011	2	58	203,000
8/23/2011	3	116	406,000
8/30/2011	4	49	171,500
Total		223	780,500

At an average fecundity of 3,500 eggs per female.

Maintenance

Dworshak

- Modify B bank standpipes for serial reuse.
- Repaired cable on large pond crowder.
- Replaced battery in maintenance cart.
- Trane Air handlers on Nursery building maintenance performed.
- Repaired sump pump in Mech I.
- Installed Main Pump #5.
- Removed flow orifices in Mech II piping.
- Knight construction installed new HDPE nursery supply line.
- Annual maintenance performed on John Deere backhoe; Komatsu forklift & 1999 Dodge Caravan
- USACE Condition assessment team made more site visits.

Kooskia

- Flushed and refilled the incubation system for spring Chinook egg transfer from DNFH. Outside RWs were power washed on Aug. 1.
- RW Chiller failed on Aug. 4th, Guardian Plumbing and Heating contacted and parts ordered. This was a controller problem and UMI was contacted because the chiller is still under warranty. They gave us permission to run a second condenser line with two valves for summer use. New part installed on Aug. 12
- Got the BP reuse back-up chiller started.
- Fixed an aerator in the Biofilter by scavenging parts from other old aerators to get it back working.
- Changed oil filter on the York chiller.
- Egg treatments and pound counts started on Aug. 31

Meetings/Training/Travel

Dworshak

8/3 Fred Peterson, Occupational Safety and Health Administration conducted an inspection of the facility. Fred was “kind” and offered corrective action for multiple items to keep our staff safe.

8/24-25 Mike Carrier, Assistant Regional Director (Fisheries) and Rich Johnson, Fisheries Supervisor visited the Dworshak and Kooskia Fish Hatcheries and met with the Nez Perce Tribe regarding the goals associated with the Snake River Basin Adjudication.

Kooskia

8/2 Kent Hills, Hatchery Manager, met with Sean Connolly on the FIS program and how to enter data for the KNFH.

8/3 Meetings at DNFH with on various issues: adult trap data, personnel issues, funding for chiller and picked up egg tubes for labeling. Ended day in Lapwai with a meeting with the NPT.

8/11 Kent meeting at DNFH on the SRBA five year plan.

8/30 Kent met with Ed Larson, SRBA liaison for NPT.

8/31 Ed traveled to KNFH to meet with staff.

Miscellaneous

Safety

8/24-25 Forklift training conducted by Randy Aulbach, Deere Flat National Wildlife Refuge, which was attended by USFWS, NPT staff from KNFH and U.S. Army Corps of Engineers.

Personnel Actions –

8/14 Brent Goosen joined the Dworshak Hatchery Team on August 14th. Brent's work with us will be maintenance focused (Maintenance Worker). Brent brings a mid-western work ethic and a love for laughter to the crew. Welcome aboard Brent!

8/17 Interview for Electrician position conducted by Mark Drobish, Ben Greene, Electrician and Jack Christiansen, Aquatics Engineer.

Visitors –

Dworshak

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.

Larry Peltz
Complex Manager

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