



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 –Jan., 2011**

Fish Management Culture

Dworshak

SPRING CHINOOK SALMON (SCS)

Brood Year 2009(BY09)

Feed was reduced on the SCS to imitate natural feeding during the winter months. Starting on December 20, 2011, feeding for all SCS was cut back to Monday, Wednesday, and Friday. Each week for the next three weeks the amount of feed was reduced from 7 to 5 to 3 pounds per day. After the third week all SCS were taken off feed for the rest of the month. Personnel from Idaho Fish Health Center (IFHC) are conducting routine exams to insure the SCS are in good health throughout the fast. All SCS are scheduled to go on back on feed February 8.

At the end of the month there were 1,081,814 BY09 SCS in a total of 29 raceways (RW's) averaging 27 fish per pound (fpp) and 126 mm (5.0 inches) total length. Overall mortality was 0.1 percent and water temperature in the RW's averaged 42.0°F during the month.

Brood Year 2010 (BY10)

At the end of the month there were 1,112,445 sac-fry from Dworshak stock incubating on chilled water at Dworshak. The condenser for one of the two compressors on the chiller failed on January 2, leaking Freon into the condenser water. This caused the water temperature to the incubation stacks to increase about 2°F during the month. This in turn will result in the BY10 SCS being initially ponded into the nursery rather than outside raceways and starting on feed about a month earlier than scheduled. Mortality was 0.2 percent and water temperature in the incubation stacks A-B averaged 38.6°F during the month.

COHO SALMON (COS)

Brood Year 2009

At the end of the month there were 322,325 COS on station averaging 16.8 fpp and 141 mm (5.5 inches) total length. Mortality was 0.1 percent and temperature averaged 42.0°F for the month.

SUMMER STEELHEAD (SST)

Brood Year 2010

At the end of the month, System I had 774,065 SST from Takes 7-10 which averaged 10 fpp and 166 mm (6.5 inches) total length. Mortality for the month was 0.1 percent and water temperature averaged 42.0°F.

At the end of the month System II had 774,648 SST from Takes 4-7 (partial) which averaged 8.5 fpp and 177 mm (7.0 inches) total length. Mortality for the month was 0.1 percent and water temperature averaged 42.0°F.

At the end of the month System III had 720,073 SST from Takes 1-4 (partial) which averaged 7.4 fpp and 185 mm (7.3 inches) total length. Overall mortality for the month was 0.2 percent and water temperature averaged 42.0°F for the month.

Steelhead Spawning BY 2011

The Steelhead spawning season began on January 11th with 158 females being spawned. These fish were representative of the “Early Returners” which were collected via the Dworshak ladder in October and November. An additional 15 females were air-spawned by Scott Everett (Nez Perce Tribe) and Andrew Pierce (Columbia River Intertribal Fish Commission-(CRITFC)) and crew as a practice/test effort for additional air-spawning scheduled for February in conjunction with the Kelt Rehabilitation Project.

RAINBOW TROUT (RBT)

Brood Year 2010

At the end of the month there were 8,725 triploid RBT averaging 3.2 fpp and 234 mm (9.2 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 (01/31/10).

SP	BY	Location	Number	Wt (lbs)	FPP	L in	L mm
SCS	09	A-B Bank RWs	1,081,814	40,043	27.0	5.0	126
SCS	10	Incubation Trays	1,112,845	446	2,496	1.1	28
COS	09	BPs 74-76-78-80-82	322,325	19,172	16.8	5.5	141
RBT	10	BP 59	8,725	2,718	3.2	9.2	234
SST	10	System I	774,065	76,086	10.2	6.5	166
SST	10	System II	774,648	91,612	8.5	7.0	177
SST	10	System III	720,073	97,149	7.4	7.3	185
SST	10	SST Syst Tot/Ave	2,268,786	264,847	8.6	6.9	176
Total Fish/Eggs on Station EOM			4,794,495	327,226			

Kooskia

Kooskia Trap Operations BY10

The trap remained closed this month.

Kooskia Brood Year 2010

All Kooskia stock BY10 eggs are currently being incubated at Kooskia NFH on chilled well water. Kooskia stock BY 2010 eggs currently number 722,725.

Egg incubation temperature averaged 41°F for October.

The new egg incubation recirculation system is currently in use for BY10 SCS eggs. The system has performed flawlessly, maintaining a stable 41°F water temperature throughout the rearing cycle. This year the eggs have been reared entirely on well water, due to using the system, which should result in less ICH this coming summer.

Kooskia Brood Year 2009

Kooskia Stock BY09 SCS number 657,654 averaging 30.2 fpp at 4.80 inches long. Growth for the month was negligible due to ice on the ponds. All Kooskia stock SCS are being reared in the outside BP's on creek water. The fish will be split into the raceways next month. The creek water temperature averaged 34.4°F during December. No formalin treatments were administered. Idaho Fish Health Center exams showed healthy fish this month. PIT tagging was conducted Jan 18-19. A total of 13,946 fish were PIT tagged in BP's 1 and 2.

Maintenance

Dworshak

- A bracket was fabricated for a Camera mount for Chris Peery (Idaho Fishery Resources Office) for installation in downstream dam.
- External site tubes were installed on all four of the degassing towers for the nursery to monitor flow levels during nursery operations.
- The batteries were replaced in the nursery cart

- The gutters on quarters #1 were cleaned, the leaves were raked up and removed and the interior was cleaned to prepare this house for occupancy in March.
- A metal frame stand was fabricated to replace the wooden stand for holding adult males during spawning operations.
- Pump #3 in the main pump house was pulled and sent off to Benchmark Inc. for repairs.
- A permanent projector and screen were installed in the conference room.
- One of the two compressors failed on the chiller which required maintenance during the month. The chiller will operate off a single compressor through the remainder of Chinook incubation/pre-feeding fry stage.
- All lighting was replaced in Mechanical I.

Kooskia

- Contract awarded to Burton Construction of Spokane, WA to install a new backup generator scheduled for this March. The new generator will be half the size of the old unit and will be much more efficient in fuel use. Burton is scheduled to begin demolition work on March 14, 2011 and the generator is scheduled to ship to the hatchery on March 17.
- A contract has been awarded to Boller Electric of Kooskia Idaho to replace all of the old, inefficient, and non-functional lighting at Kooskia NFH. Lighting will be replaced with new, efficient T8 fluorescent lighting. Buildings included are the Main Hatchery building, the Mechanical building, and the Adult Storage building. Work should begin this February.
- Installed a whole house UV water disinfecting unit in the new hatchery quarters.
- Engineer from Qwest Communications surveying for phone line installation to the new quarters.
- Installed new reuse return pump control panel in the hatchery building.

Meetings/Training/Travel

Dworshak

- 1/12 Larry Peltz, Hatchery Manager and Mark Drobish, Hatchery Manager had a monthly meeting with Nez Perce Tribe (NPT) staff to discuss SRBA issues.
- 1/19 Larry Peltz, Jill Olson, Biologist, Mark Drobish, and Ed Larson, (NPT) participated in the Federal Facilities Compliance Agreement conference call with the EPA, U.S. Army Corps of Engineers (USACE), Nez Perce Tribe and U.S. Fish and Wildlife Service. Each agency had legal representation on the call as well. This effort is directed at moving Dworshak into compliance relative to Clean Water Act Standards and is directly tied to the station's National Pollutant Discharge Elimination System (NPDES) permit.
- 1/20 Howard Burge, FRO Project Leader Mark Drobish and Ed Larson attended the Pre-Annual Operating Plan meeting at the Clearwater Fish Hatchery. Russ Thornton, Design Engineer, USACE spent a day at the hatchery to inspect and make recommendations for the feed building roof that began leaking this month. Initial damage occurred back on November 16, 2010 with the high winds

that ripped through the local area. Permanent roof repairs are scheduled for June, 2011. Russ also inspected the Fish Health labs roof which has been leaking for years. Russ hopes to gain approval to proceed with a design for a roof replacement for the Fish Health lab.

Kooskia

None

Miscellaneous

Personnel Actions –

1/16 Adam Izbicki was re-assigned from the Kooskia National Fish Hatchery (KNFH) to the Dworshak Fish Hatchery with the recent hiring of Kent Hills as the new Kooskia Hatchery Manager. The addition of Kent rounds out the staffing transition of the KNFH to 100 percent Nez Perce Tribal Fisheries.

Nathan Wiese, Assistant Project Leader at the Hagerman National Fish Hatchery was selected for the Assistant Project Leader position here at the Dworshak Fish Hatchery. Nate will join the Dworshak Team beginning on March 13, 2011.



Larry Peltz

Complex Manager

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