



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 –May, 2010**

Fish Management Culture

Dworshak

Dworshak

SPRING CHINOOK SALMON (SCS)

Brood Year 2009

At the end of the month there were 1,124,431 BY09 SCS in A and B bank raceways (RW's) averaging 260 fish per pound (fpp) and 59 mm (2.3 inches) total length. Some SCS were still in experimental tanks at the end of the month as explained in the April report. Overall mortality was 1.1 percent and water temperature in the RW's averaged 43.0°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 142,000 FCS which received PIT tags and were transported to Couse Creek on the Snake River during the month. These fish were approximately 150 fpp at time of transport. Tagging of all the FCS is being done by BioMark staff.

At the end of May there were 175,306 FSC on station averaging 228 fpp and 62 mm (2.4 inches) total length. Mortality for the month was 0.2 percent and water temperature in the RW's averaged 43.0°F during the month.

COHO SALMON (COS)

Brood Year 2009

On May 18-19 there were 340,602 COS transferred from Kooskia to Dworshak National Fish Hatchery by the Nez Perce Tribe (NPT). At the end of the month there were 340,083 COS on station at averaging 169 fpp and 65 mm (2.6 inches) total length. Mortality was 0.15 percent and temperature averaged 42.9°F for the month.

SUMMER STEELHEAD (SST)

Brood Year 2010

On May 16 Take 1 SST from the nursery began being 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).

System I water supply has been retrofitted to supply only water from Dworshak Reservoir rather than river water for the early rearing months for SST in an attempt to avoid or reduce the impact of *Infectious Hematopoietic Necrosis Virus* (IHNV) on the fish. Personnel from the marking trailer are clipping adipose (AD) fins on the SST and then transferring the fish into System I at a rate of approximately 100,000 fish/BP. In order to compare these SST with fish reared on river water, approximately 33,000 SST from Takes 1 and 2 were moved via forklift into System III. Metal crowders were placed into these ponds to rear the SST at similar densities to the fish in System I. At the end of the month all SST from both Takes 1 and 2 were moved from the nursery into outside BPs. Survival from eyed eggs to outside transfer of SST from Takes 1-2 was 94 percent.

At the end of the month System I had 476,219 SST from Takes 1-2 which averaged 78 fpp and 84 mm (3.3 inches) total length. Mortality for the month was 0.09 percent and water temperature averaged 50.2°F.

At the end of the month System III had 65,508 SST from Takes 1-2 which averaged 77 fpp and 85 mm (3.3 inches) total length. Mortality for the month was 0.15 percent and water temperature averaged 42.9°F.

There were 2.0 million SST in the nursery from egg Takes 3-9 in various stages of development at the end of May. Fry from Take 10 were moved from the incubation room to the nursery on June 3 and are included in the Table 2 summary. The average eye-up of BY10 SST eggs enumerated at Dworshak was 93.4 percent.

RAINBOW TROUT (RBT)

Brood Year 2009

All BY09 Rainbow Trout from Dworshak were outplanted in April and May, 2010. Table 1 illustrates the dates, numbers, and location of the RBT outplants.

Table 1. BY09 RBT outplants from Dworshak NFH.

Date	Hauling Agency	lbs.	Number	Location
4/26/2010	NPT	412	566	Tunnel Pond
5/4/2010	NPT/USFWS	2,000	2,750	Tunnel Pond
5/5/2010	IDFG	1,000	1,100	Karolyn's Pond
5/5/2010	IDFG	750	825	Robinson's Pond
5/5/2010	IDFG	2,000	2,200	Spring Valley
5/6/2010	IDFG	750	825	Campbell's Pond
5/11/2010	NPT	550	605	Talmac
Total		7,462	8,871	

Source: Monthly Inventory Summary BY09 RBT June 1, 2010.

Brood Year 2010

At the end of the month there were 4,354 triploid RBT averaging 123 fpp and 69 mm (2.7 inches) total length in two circular tanks in the incubation room. Mortality for the month was 0.1 percent. These RBT will be for Kids Fishing Day in 2011.

SUMMARY

Table 2. Total Production—Fish on Station (05/31/10).

SP	BY	Location	Number	Wt (lbs)	FPP	L in	L mm
FCS	09	B-Bank RWs	175,306	769	228.0	2.4	62
SCS	09	A-Bank RWs	1,124,431	4,317	260	2.3	59
COS	08	BPs 51& 53	340,083	2,012	169.0	2.6	65
SST	10	Nursery	2,033,959	6,356	320.0	2.1	53
SST	09	System I	476,219	6,100	78.1	3.3	84
SST	09	System III	65,508	850	77.1	3.3	85
RBT	10	Incub. Circ Tanks	4,354	35	124.4	2.7	69
Total			4,219,860	20,439			

Other Activities:

A series of infrastructural modifications were made to water supply lines to provide reservoir water to the System I burrows ponds. A “Hot Tap” was completed connecting the reservoir water supply line into the System I reuse line and vacuum degassers were constructed, assembled, and installed to eliminate gas supersaturation which is common in the reservoir water supply line. The result of these modifications provides reservoir water to the burrows ponds in System I which delays exposure of steelhead to river water which is the source of IHNV. Steelhead were moved from the nursery to System I on May 18th and for the first time in the history of the facility, fish are being reared exclusively on reservoir water in a portion of the BPs!

Kooskia Brood Year 2009

Kooskia Stock BY 2009 SCS number 650,043 averaging 199 fpp at 2.56 inches long. Growth for the month was .37 inches. All Kooskia stock SCS were moved to the outside BPs on May 24th. The ponds are currently on reuse with well water makeup. The reuse water temperature averaged 48.3F during May.

Brood Year 2009 Coho Salmon (COS)

An inventory of juvenile Coho on May 1st records 341,573 Clearwater-stock fingerlings being reared in twenty nursery tanks as shown in table 1 below.

Table 1. Brood year 2009 Coho inventory summary on May, 1st 2010.

Vat Number	Number of fish	Weight (lbs)	FPP	Length (inch)	Date Poned
TOTAL	341,537	922	370.47	1.98	

All BY2009 Coho were transferred to Dworshak May 18th and 19th.

Maintenance

Dworshak

- Electrical: Ran conduit and wire feeders for new vacuum pumps in A bank and system 1; moved conduits and wiring in pipe galley for Knight Construction; removed main Pump #1 in Main Pump house.
- Installed new vacuum degasser columns and blind flanges on pipes in System I reuse aeration chamber.
- Fabrication projects: hose fitting for dewatering tower in tagging trailer; pond crowder for FRO fall Chinook project; broom and brush holder for A bank; welded brackets to frames for grating in System I reuse aeration chamber; assisted professional welder with preparation for A bank RW project; built mounting bracket for controls of pumps on A bank.
- Helped stabilize tagging trailer for Biomark.
- Altered fork lift skids under new tank to fit larger forklift.
- Repaired finger weir for Kooskia NFH trap.
- Assisted Roto Rooter in pumping down System I clarifiers for vacuum clean-up.
- Hauled SCS from KNFH to DNFH.
- Mounted degassing vacuum pumps on A bank and System I reuse pump house.
- Hauled equipment for Kids' Fishing Day, unloaded at Tunnel Pond and re-loaded and hauled back to hatchery after the event.
- Hauled RBT from hatchery to Tunnel Pond for Kids' Fishing Day.
- Repaired broken pond valves on Pond 26 and 62 which involved cutting asphalt.
- Cleaned buildings, checked main pumps, traveling water screens, moss trap at Main Pump House, checked fire maintenance pumps and screens and checked Mech I & II boilers on a daily basis.
- Removed snow equipment from hatchery equipment.
- Prepared and sent monthly vehicle report to COE, Walla Walla.
- Repaired broken irrigation lines and sprinkler heads on hatchery lawns, mowed grass and weed-eated lawn in vacant house.

- Rebuilt damaged ladder on fish truck.

Kooskia

Construction on the new quarters nears completion with the installation of the lawn, sprinkler system, fireplace hearth, and carpet.

- Windstorm blew roof off Storage building and damaged quarters #4 roof.
- Engineers designing replacement generator conducting a site visit.
- Roof repairs began with Holcomb Construction.
- Shade clothes put up over BPs.
- Repaired fish trap finger weir.

ARRA/ Projects:

Screen Chamber project: The project is scheduled for actual construction to begin June 2010.

Egg recirculation system and well rehab:

Work began on the mixing chamber and hatchery building. Old piping was removed from the mixing chamber and hatchery building and excavations were completed for the new head tank footers. Electrical work also began with installation of new conduit.

Meetings/Training/Travel

Dworshak

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|-------|--|
| 5/3 | Larry Peltz, Complex Manager, traveled to Walla Walla, WA to attend project completion meeting for the nursery roof project. |
| 5/3-7 | Joan George, Admin Officer, traveled to NCTC in Shepherdstown, WVA for training, " <i>Applied Supervision.</i> " |
| 5/21 | Larry Peltz met with Congressional aides from Senator Risch's Office. |
| 5/24 | Participated in conference call for planning Project Leaders meeting in August. |
| 5/28 | Met with Nez Perce Tribe representatives to discuss feasibility of construction broadband tower on hatchery property. |

Kooskia

Miscellaneous

- | | |
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| 5/26 | Birthdays for May employees were celebrated in the Conference Room with the Fish Health Center providing treats. |
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Personnel Actions –

Safety/Wellness –

Information/Education (I/E)

Dworshak

Tours - 2

People - 70

Register – 195

Visitors from 10 states (top 3: WA-32, MT-11, OR-11)

Visitor Contacts – 1

Volunteers – 15 **Hours** – 80

Website Visitors – data not available

On-site:

- Participated in monthly IdEEA executive committee meetings.
- Coordinated travel plans for Earth Partnership for Schools' RESTORE Institute, and prepared documents to spend grant funds for Russell Elementary Schoolyard Habitat Restoration Project.
- Coordinated 2010 Kids' Fishing Day and Veterans' Fishing Day.
- Began planning for Idaho Water Camp teacher workshop.
- Coordinated Dworshak Extreme Explorers' culminating field day.
- Planned and coordinated Hatchery in the Classroom (HIC) releases for all participating schools.
- Compiled and distributed May/June issue of Complex Happenings newsletter.

Off-site:

- Facilitated field day for Dworshak Extreme Explorers after school club, for 8 students
- Facilitated fish dissections at 2 schools – Centennial Elementary in Lewiston (76 students) and Colton School (22 students).
- Facilitated fisheries station at Nez Perce County's Environmental Awareness Days (487 students).
- Conducted Kids' Fishing Day at Tunnel Pond (121 children fished, approx. 300 total attendees).
- Conducted Veterans' Fishing Day at Tunnel Pond (9 veterans fished, approx. 18 total attendees).
- Facilitated fisheries program for Orofino Elementary kindergarten classes (49 students).
- Conducted HIC fish release and habitat activities for 5 schools – Lena Whitmore Elementary in Moscow (50 students), Highland Elementary in Clarkston (25 students), Orofino Elementary (24 students), Colton School (22 students), and McSorley Elementary in Lewiston (50 students).
- Facilitated fishing activity at Boating and Water Safety Festival at Big Eddy (45 children participants).

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.

Website contacts: (data not available)

On-site:

- Planned and coordinated Hatchery in the Classroom (HIC) releases for all participating schools.
- Compiled and distributed May/June issue of Complex Happenings newsletter.
- The Forest Service held their annual fire education day at the hatchery grounds.

Off-site:

- Conducted HIC fish release and habitat activities for 4 schools –Sts. Peter & Paul Elementary in Grangeville (24 students), Nezperce High school (21 students), Prairie Elementary in Cottonwood (35 students), and Clearwater Valley Elementary in Kooskia (18 students).



Larry Peltz

Complex Manager

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