



# Dworshak Fisheries Complex

## Monthly Activity Report



### August

### Highlights

#### Dworshak

SCS BY14 - 2,221,987

COS BY14 - 663,473

SCS BY15 - 909,685

SST BY15 - 2,381,804

#### Kooskia

Fish on station

SCS BY14 - 660,799

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### U.S. Fish & Wildlife Service, Region 1

#### Managers Message - Steve Rogers

One of my favorite uses for the 'Managers Message' is to introduce all of you to a new employee in the Complex.

This month, Brian Devlin, our new Budget Tech, has agreed to share a bit about himself.

Brian was born in Coraopolis, Pennsylvania. During his childhood years he also lived in Chester, West Virginia and Gainesville, Georgia.

At age 17, he enlisted in the United States Marine Corps. He attended boot camp at the infamous Parris Island, and then transferred to Camp Geiger in North Carolina for marine combat training. After that he moved on to the Naval Air Station at Meridian, Missouri to learn aviation supply. He did well in that regard, graduating third in his class. While stationed in Beaufort, South Carolina for the next eight years, he deployed twice to Japan, once on the USS Harry S Truman, and once to Iraq. He then worked at the Pentagon as a "Weapon Systems Planning Document Coordinator", and also in budgeting for both the Navy and Corps in aviation parts. Then Brian was assigned another tour to Japan. That was followed by his last six years on active duty in Jacksonville and Cherry Point, North Carolina. During that time he deployed to Bahrain and also Afghanistan. With the recent downsizing of the military, promotions became hard to come by. As a gunnery sergeant with two decades of service to his country, Brian recently retired honorably from the Marine Corps.

Volume 4, Issue 10

Brian Devlin, Budget Tech



Credit: Olson FWS

Brian has been married to his wife Christy for nineteen years. They have three wonderful children. Emily is eighteen, Lauryn is "fifteen going on twenty-five", and their son Kelton is twelve. Brian's father lives in Colton Washington, where he owns a business. During visits Brian and Christy fell in love with Colton and its small town feel, so they purchased a home there in advance of Brian's retirement. Although he enjoys the pastoral views of the Palouse farm country, he misses the Georgia pines. He's noticed we have a lot of pine trees around Dworshak NFH, so it wouldn't surprise me if he moves into the Orofino area down the road.

Brian enjoys reading, watching and participating in sports, and exercise. He also loves to hunt, but didn't have a lot of time for hunting in the later stages of his military career.

When you get a chance, stop by and introduce yourself to Brian if you haven't already. Thank him for his service. Perhaps a few of us might show him some hunting options, or hook him into a fat steelhead or chinook? Welcome to the team Brian...we're glad you're here.

## Dworshak NFH Production - Izbicki, Sommer, Bisbee

### Dworshak Stock- Spring Chinook Salmon (SCS)

#### Brood Year 2015 (BY15)

The fish ladder was opened June 15 and the first sort for adult SCS broodstock was July 7. By the end of August 3,162 adults were trapped: 1,706 adults were held for broodstock, 4 fish were given for subsistence, 126 jacks were given to the food bank, and 139 naturals were outplanted at the Hocus boat ramp. Spawning began on August 11. Three egg takes were completed for both Kooskia and Dworshak in August. Take 1: Five females were spawned for Kooskia and 52 females for Dworshak; Take 2: Seven females spawned for Kooskia and 58 for Dworshak; Take 3: 20 females for Kooskia and 125 for Dworshak. Kooskia are transporting their eggs green and incubating them at Kooskia NFH.

#### Brood Year 2014 (BY14)

At the end of August there were 2,221,987 fry at 134.9 fpp. Mortality was 0.36%. River temperature has run about 2 degrees colder than average which has slowed SCS growth and pushed back marking and tagging. SCS were marked 8/17-21/2015. There are 10 distinctive PBT groups ponded: 6 for the density study (3 high density and 3 low density), one for general Dworshak production, one for Selway production, one for Nez Perce Tribal Hatchery (NPTH) additional Lower Snake River Comp. Program (LSRCP) production, and one excess fish production, which will be transferred to NPTH with the LSRCP fish in September.

### Coho Salmon (COS)

#### Brood Year 2014 (BY 14)

At the end of August there were 663,473 fry at 123 fpp in seven Burrow's Ponds. Mortality was 0.07 %. A total of 1,586 pounds Bio-Oregon's BioPro #2 and 1.5 crum feed was fed for the month.

### Dworshak Stock Summer Steelhead (SST)

#### Brood Year 2015

At the end of August, there were only 500 CWT retention fish in remaining in the nursery. Take 10 was pumped out to BPs on 8/17/15. Take 10 are the Lolo creek fish so they have no marks or tags.

(Continued page 3)



Credit: Jill Olson FWS

Wayne Hamilton sorts Spring Chinook Salmon on the spawning table.



Credit: Jill Olson FWS

Crews from the Fish and Wildlife Service, the Nez Perce Tribe, and Idaho Fish and Game work together to collect brood stock for the 2015 SCS spawning season.

**Dworshak Hatchery Headlines**

(Continued from page 2)

**Dworshak Stock Summer Steelhead (SST)**

**Brood Year 2015 (continued)**

Takes 1-5, 7-10 were all moved out into the Systems BPs by the end of August. Take 9 was tagged on 8/13/15. At the end of August there was 2,381,804 fry in the BPs averaging 33 fish per pound. Mortality was 0.5%.

**SUMMARY**

Table 1. Total Production - Fish on Station (8/31/15).

SP	BY	Location	Number	Wt (lbs)	FPP	L in	L mm
SCS BY14	14	Raceways	2,221,987	16,470	135	2.9	74
COS BY14	14	Raceways	663,473	5,391	123	2.9	72
SCS BY 15	15	Incubation/Eggs	909,685	-	-	-	-
SST BY15	15	Systems	2,381,804	73,436	32	4.6	117
<b>Total Fish/Fry on Station @ End of Month</b>			6,176,949	95,297			

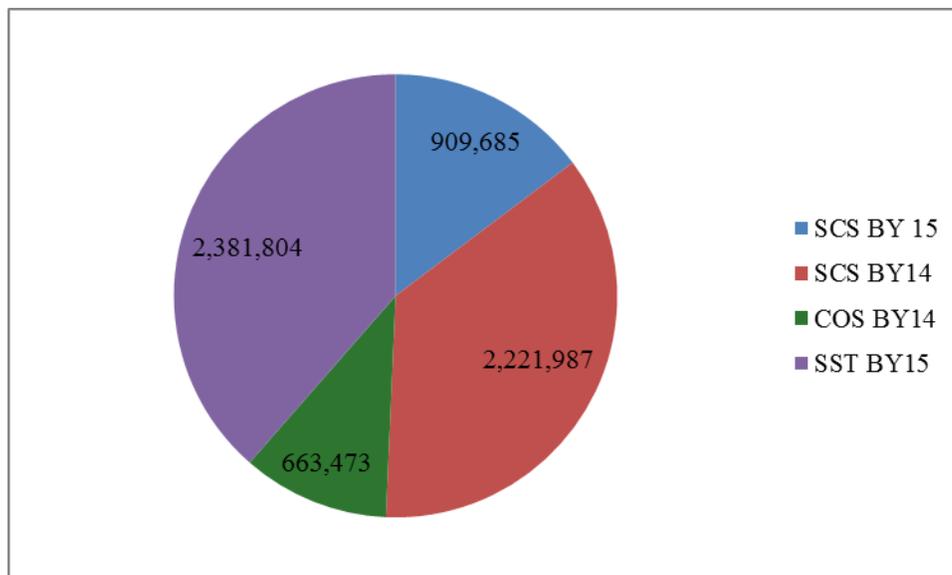


Figure 1. August 31, 2015: Total Fish/Eggs on Station.

## Idaho Fisheries Resource Office- Prepared by Chris Peery

### Dworshak Complex Monitoring and Evaluation Team

The FRO M & E Team conducted the following activities during August;

- Processed spring Chinook salmon collected for broodstock. Information collected on lengths, ages and sex of broodstock. Summaries of data were prepared and distributed to partners and data was uploaded to FINS database.
- Worked with the Nez Perce Tribe to develop an M & E plan for Chinook salmon production at Kooskia NFH.
- Measured CWT retentions in BY2015 steelhead.
- Began development of BY2016 steelhead broodstock collection.
- Participated in pre-spawning meeting for BY2015 spring Chinook salmon.
- Worked with Production crew with first spawning takes for Chinook salmon. Worked with Production staff to develop spawning reports and uploaded data to FINS database.
- Participated in weekly Snake River Coordination calls and monthly Region 1 and Dworshak Complex Project Leader meetings.
- Began analysis of steelhead production in the pilot Reuse Aquatic System (RAS) at Hagerman from first trial year.
- Completed filing Accomplishments in FIS for Region 1.
- Conducted annual equipment inventory for Region 1.
- Brad Buechel left the FRO this month to start a new position with the FWS in Arizona.



Credit: FWS

Carrie Bretz, Ray Jones, and Brad Buechel collect fin clips for parental based tagging



Credit: FWS

FRO staff continued snorkel surveys for white fish in the Lochsa River.



Credit: FWS

White fish in the Lochsa River.

### Aquatic Conservation Team

- Participated in bi-monthly lamprey coordination team calls.
- Conducted biological stream surveys in Kootenai Wildlife Refuge.
- Continued snorkel surveys for white fish in the Lochsa River.
- Began planning juvenile lamprey stream surveys with Nez Perce Tribe.

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**Idaho Fisheries Resource Office- Prepared by Chris Peery**

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**Snake River fall Chinook Salmon Research Team**

- The first draft of the monograph on Snake River fall Chinook that is cited frequently in the recovery plan NMFS will be releasing at the end of September was sent to Stream Net for posting.
- Worked with NMFS on the R M & E section of the plan prior to travelling to Cook, Washington to lead an Adaptive Management Implementation Plan meeting with the fall Chinook salmon modeling group including staff of USGS, NMFS, and statisticians providing additional support through BPA.

**Salmon Sub-Office - Brostrom**

- Attended a Conservation of Freshwater Mussels Class at NCTC. A good class with knowledgeable instructors. I hope to use what I learned to advance our knowledge of distribution and threats to freshwater mussels in Idaho.
- Completed FIS data entry and reporting.



LOWER SNAKE RIVER  
COMPENSATION PLAN  
*Hatchery Program*

## Idaho Fish Health Center - Blair

August 2015

### Dworshak NFH

**Steelhead juveniles:** Burrows Pond 19 was exhibiting unusual behavior and increased mortality. Upon examination, no external parasites, bacteria or virus was found. However, fungus was isolated on bacteriological media in 3/5 fish. In addition, low levels of gas bubble trauma and *Sanguinicola* were seen in the gills. Mortality has subsided.

In addition, a pre-release inspection was performed on the “escapees” in the channel. No pathogens were detected, but fish were difficult to capture, and are still in the channel.

**Spring Chinook juveniles:** Juveniles were inspected for pre-transfer to the Nez Perce Tribal Hatchery Complex and for Selway pre-release. No pathogens were detected.

**Spring Chinook Broodstock:** Spring Chinook spawning began in August for Kooskia and Dworshak stocks at Dworshak. Samples were taken for fish health testing along with additional samples for an IHNV study with the Kooskia stock and a Draxxin antibiotic study with the Dworshak stock.

**Coho juveniles:** 150 juvenile Coho salmon were inspected for a possible transfer to the Willard National Fish Hatchery under the Yakima Nation program. 60 of the 150 were also sampled for bacteria, *Myxobolus cerebralis*, and *Renibacterium salmoninarum* by ELISA. All 150 fish were sampled for virus.

### Kooskia NFH

**Spring Chinook juveniles:** Low levels of the parasite *Ichthyophthirius multifiliis* were detected on gills and skin from routine monitoring exam. Formalin treatments were recommended for pathogen control.



Credit: Mark Drobish, FWS

The Dworshak Maintenance staff mounted a trash pump on top of the fish truck to transfer water into fire trucks. This set up worked great and provided quick and efficient refill for multiple fire trucks which otherwise would have lost an hour of travel time to refill their trucks to continue to fight the fire.



Credit: Mark Drobish, FWS

Water being pumped from the Dworshak truck into the Upper Fords Creek fire truck on August 23<sup>rd</sup>.



Credit: Mark Drobish, FWS

Water being pumped from the Dworshak truck into a fire fighting truck for a crew from Montana on August 23<sup>rd</sup>.

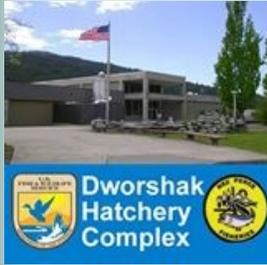


Credit: Mark Drobish, FWS

The Dworshak Fish truck served as a water tender truck for the “Municipal Fire” east of Orofino and staff worked with the Orofino and Upper Fords Creek Fire Departments and with several “Hot Shot” crews from other areas providing water for these crews to contain the fire.

## Dworshak Fisheries Complex Administrative Notes– Drobish

- On August 4<sup>th</sup>, Chris Starr, Lower Snake River Compensation Plan (LSRCP) office approved funding to replace the remaining “mud valves” in the raceways and to install mud valves in place of the serial reuse ports to provide the ability to control water flow to the “B Bank raceways”. Thanks for the support Chris and thanks Margaret for taking care of the administrative side of this to enable us to proceed with the purchasing process!
- On August 19<sup>th</sup>, the Northwest Power and Conservation Council, Boise, Idaho along with ~40 Congressional Staffers toured the facility along with representatives from the U.S. Army Corps of Engineers and Nez Perce Tribe.
- On August 25<sup>th</sup>, Regional Director, Robyn Thorson, Sylvia Pelizza, Refuge Supervisor, and Nathan Dexter, Tribal Liaison, all from the Regional Office in Portland, Oregon visited the hatchery and were able to visit with staff during spring Chinook salmon spawning operations.
- On August 27<sup>th</sup>, a revised budget was submitted to the Lower Snake River Compensation Plan office after finalization and approval of the “Cost Allocation Budget”.
- Area fires originated from more than 25 lightning started fires on August 10<sup>th</sup>. Heavy winds on August 14<sup>th</sup>, turned these fires into fast moving intense fires claiming thousands of acres and over 50 homes in the Kamiah, Idaho area.
- A fire in the City of Orofino ignited (non-lightning strike) on August 14<sup>th</sup>. The high winds spread the fire quickly and 5 homes succumb to the fire.
- Multiple fires in the area required national level assistance with crews from coast to coast, Alaska and Canada providing support and specialized equipment to gain the upper hand. These fires have been described as the worse fires in Idaho since the early 1900’s. Dworshak staff provided support for fire suppression efforts from August 15<sup>th</sup>-23<sup>rd</sup> by utilizing the Dworshak Fish Hatchery truck as a water tender to refill fire trucks. Ice was also made available as the communities set up evacuation shelters and assembled basic necessities for those in need. Complex staff volunteered throughout the community in many ways on their own time and initiative to assist where needed.
- Despite the severity of the fire, all Dworshak employees living in these areas are fine and no staff lost their homes. Our staff was quick to step up and fill this need for a 9 consecutive day effort in addition to the regular day to day duties at the hatchery.



Credit : Jill Olson, FWS

Idaho Youth Challenge Cadet works beside Zach Broncheau to learn the proper pond cleaning technique.



Credit : Jill Olson, FWS

Applying the elbow grease .

## Dworshak NFH Maintenance - Koehler

- Still waiting on replacement pump and engineering for pressure switch for fire maintenance system. Hope to get this project moving forward.
- PR aqua fish pump has been repaired and back in operation.
- Both channel crowders have had the electrical upgrades completed. Both working well.
- Lights are being replaced with upgraded lighting in several offices on site.
- Two new offices have been completed in the main building and are ready to move in. Very nice space.
- The first of three new river pumps has been delivered. Terry Weeks, Rick King and Rob Keller did an unbelievable job pulling the loaner out and re-installing the new pump in just two days. Job well done.
- New signs are being installed throughout the hatchery, identifying all the major buildings and operations for visitors and employees alike. So far looking very good.
- Landscaping upgrades are really moving along. Areas around the visitors parking lot and restrooms are being cleaned up and river rock is being installed as well new trees and granite boulders. This gives a more regional look and feel. And much more maintenance free to boot, saving time and resources.
- And for the month of August, 38 preventative work orders were completed by the maintenance crew making 5 straight months of 100% completion on or before target completion date.



## Information and Education

### August Activities



#### Dworshak - Jill Olson

**Facebook Statistics:** Reach - 2,496 Engagements - 392

**Website Statistics:** Page Loads - 233; Unique Visits - 177; First Time -147; Returning -30

**Visitors:** We had 217 people visit and take self-guided tours. Our guests came from 14 states and Germany.

**Tours:** Two guided tours were given during the month of August reaching 10 kids and 5 adults.

**Outreach:** No off-site activities took place in August.

**Volunteer Hours:** Eight individual volunteers contributed a total of 151.25 hours in August. Idaho Youth Challenge Academy volunteered 106 hours to help the production crew complete multiple projects during the month of August.

#### Kooskia - Kent Hills

**Visitors:** There were 247 visitors to the hatchery during this month; this figure is compiled by staff. The visitors enjoyed going through the tagging trailer, the staff was good about educating the visitors with regard to the tagging operations.



### Let's Go Outside!

#### Connecting People With Nature

<http://www.fws.gov/letsgooutside/>

## Kooskia NFH Production - Hills

This activity report is implemented by the Tribal Fish Hatchery Manager, Kent Hills. All information in this report was collected and or performed by the hatchery staff during the preceding month.

Under SRBA and the Clearwater Annual Operating Plan, the Tribe, Service and Idaho Fish & Game have agreed to implement other fish production actions related to KNFH mitigation. Reports will include additional information about other species reared, processed and released in relation to KNFH operations.

## Kooskia Spring Chinook Brood Year 2014

There are 660,799 fish on station, they are 61.5 fish per pound and are 3.78 inches (96 mm). All fish are in the Burrows ponds on chilled well water at an average temperature of 50 degrees. Total mortality for the month was 237. The fish consumed 3,004 pounds of Bio-Vita feed. Guppy from Fish Health was at the hatchery on August 26<sup>th</sup> and diagnosed the burrows ponds had low levels of Ichthyophthirius (Ich) so formalin treatments were started on August 27<sup>th</sup>. Treatments will continue until the Ich is gone. Fish Health will reevaluate the fish in early September.



Credit: KNFH

Art Broncheau checks water temperatures on Spring Chinook eggs transported from Dworshak Fish Hatchery to Kooskia Fish Hatchery.

## Kooskia Chinook Brook Year 2015

Spawning accrued three times in August 11, 19 and 25<sup>th</sup>. Total females spawned and eggs transported to the Kooskia Hatchery for incubation was 32 after pathology had completed BKD evaluations The eggs from 30 spawned females will be kept for rearing. They are on chilled well water at 42 degrees.

## Kooskia NFH Adult Trap Operations:

The trap has been closed all month due to high creek water temperatures.

## Maintenance & Operations:

- Aug 03:** Gerry worked on the floats for the domestic water system.
- Aug 05:** Feed shipment arrived today, 2200 lbs. of 1.2mm, 2200 lbs. of 1.5mm and 2200 lbs. of 2.0mm.
- Aug 06:** The incubation system was watered up in preparation for the arrival of SCBY15 eggs.
- Aug 10:** The chiller for the incubation system was turned on.
- Aug 11:** Kent and Art traveled to Dworshak H for spawning, 5 fe males were spawned, there was 1 green kill, the eggs were transported to Kooskia by Art.

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**Kooskia NFH - Hills**

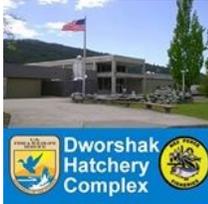
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- Aug 12:** A temperature logger was placed in the incubation system for monitoring daily TU's. The hatchery experienced a power outage at 1:30 am, the back up generator turned on and there was no power loss to the hatchery.
- Aug 13:** A temperature logger was placed into Clear Creek at the intake to monitor creek temperatures.
- Aug 19:** Art & Kent went Dworshak H to spawn, Art returned with eggs from 7 Females.
- Aug 25:** Kenny & Art traveled to Dworshak H for spawning, Art returned to Kooskia with the eggs from 18 females, Kenny remained at Dworshak H to assist in spawning Dworshak's 128 females.
- Aug 26:** Guppy came to Kooskia for the monthly fish health inspection of BY14 fish. She indicated there was a vast improvement in the gill conditions since we have changed cleaning procedures, she also indicated Dworshak H is going to try vacuuming their ponds. Guppy did find a small amount of Ich and prescribed formalin treatment for the next two weeks.
- Aug 27:** Art performed a formalin treatment on BY14.
- Aug 31:** Gerry installed another aerator in the bio-filter to increase O2 levels in the Burrows Ponds.

**Kooskia NFH Training and conferences:**

- Aug 06:** Production Leaders meeting at Dworshak National Fish Hatchery.  
Circular tank meeting in Lapwai in the afternoon.
- Aug 12:** FIS meeting at Dworshak National Fish Hatchery.
- Aug 13:** FRO meeting at Dworshak National Fish Hatchery
- Aug 20:** Lapwai for employee training.
- Aug 27:** Kenny, Art and Gerry to Kamiah for mandatory employee training.

We can also be found on the web @  
<http://www.fws.gov/dworshak/>



Like us on  and keep up with what is happening at the

## Dworshak Fisheries Complex

<https://www.facebook.com/pages/Dworshak-Fisheries-Complex/411264238917917#>

### Staff List

#### Dworshak Fisheries Complex Management:

Steve Rodgers, Dworshak Fisheries Complex Manager

Mark Drobish, Dworshak NFH Manager

Adam Izbicki (FWS) & Jeremy Sommer (NPT)  
 Dworshak NFH Assistant Hatchery Managers

Mike Tuell, SRBA Coordinator

Dr. Marilyn “Guppy” Blair, Project Leader-Idaho Fish Health Center

Scott Koehler, Dworshak NFH Maintenance Supervisor

Vacant, Project Leader, Idaho Fishery Resource Office

Mike Faler, Aquatic Conservation Lead

Dr. William Conner, Fall Chinook Research Lead

Dr. Chris Peery, Fish Production M&E Lead

Kent Hills, Kooskia NFH Manager

Gerry Fogelman, Kooskia NFH Maintenance Supervisor

**Dworshak NFH Production:** Angela Feldmann, Tom Tighe, Rob Bohn, Wayne Hamilton, Mike Bisbee, Tui Moliga, Lou Ann Lasswell, Steve Coomer, Carter Lopez, Casey Mitchell, Zach Broncheau, Jaden Hudson, Steve Jeffers, Jayson Thompson

**Administration:** Heather Leopard, Administrative Officer; Brian Devlin, Budget Technician; Randy Bowen, IT Specialist

**Dworshak NFH Maintenance:** Terry Weeks, Rick King, Rob Kellar, James Oatman, James Paddelty, Melissa Wright, Joe Livesay

**Idaho Fish Health Center:** Laura Sprague, Corie Samson

**Idaho Fishery Resource Office:** Ray Jones, Aaron Garcia, Carrie Bretz, Frank Mullins, Jody Brostrom, Ken Bugler, John Hook, Brad Buechel

**Complex Information and Education:** Jill Olson

**Kooskia NFH:** Art Broncheau, Kenny Simpson,