



# Dworshak Fisheries Complex

## Monthly Activity Report



### May Highlights

- Dworshak -**

BY 14 SCS 2,467,775 fry

COS BY 14 721,663 fry

BY 15 SST 1,552,766 fry

BY 15 SST 720,838 fingerling

- Kooskia -**

BY 14 SCS 849,362 fish

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

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May 2015

### Managers Message

Last month I failed to get a Managers Message submitted, and for that I apologize. This month I wanted to discuss the recent "fish release" celebration we had, and thank the folks that were tasked with coordinating that event.

From my perspective, the party was a great success. It was well attended, with employees, spouses and children playing and having a good time. Volleyball, horseshoes, basketball, and other activities were a great addition. I found it funny that the basketball game somehow was tall players versus not-as-tall players...no surprise who won there. In particular, the pie eating contest was a huge hit; congratulations to Zach for out-eating his older and larger coworkers.

The food we had was excellent...thanks to Billy for the use of his grill, and to everyone who kicked in donations or brought dishes and other stuff. I myself was very impressed with Brad's dish...two paper plates worth. There was plenty to eat and drink, and no one left hungry.

The bottom line for me is this was a relaxing and enjoyable evening with family and friends. My daughter and wife had a great time and so did I. Emma was running around with other kids, smiling the whole time. My sincere thanks to all of you that contributed in any way; large or small. And a specific thanks to the party planning committee. Although you may not hear it, or you may feel like it was a hassle, those of us that attended really appreciate your efforts. Thank you.



Steve Rodgers, Complex Manager

Steve Rodgers Dworshak Complex Manager

## Dworshak Hatchery Headlines - Izbicki, Sommer Asst. Managers



Credit: Jill Olson FWS

Marking Trailer



Credit: Jill Olson FWS

Takes 1 and 2 were marked and ponded into System 1 Burrow's ponds (BP's) beginning May 19th.



Credit: Jill Olson, FWS

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

#### Brood Year 2014 (BY14)

Chinook were ponded into 18 raceways in April. At the end of May there were 2,467,775 fry at 596.5 fpp. Mortality was 0.80%. Medium sized ponding screens are still set and flow is single pass at about 250 gpm. 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.

### Coho Salmon (COS)

#### Brood Year 2014

Coho were ponded into 4 raceways. At the end of May there were 721,663 fry at 710 fpp. Mortality was 0.78%. A total of 416.9 pounds Bio-Oregon's BioPro starter #0 crum feed was fed for the month. These fish will be moved to Burrow's Ponds prior to Chinook tagging.

### Dworshak Stock Summer Steelhead (SST)

#### Brood Year 2015

At the end of May, there were 1,552,766 fry in the nursery from takes 3-5 and 7-9. There is no Take 6 for Dworshak. Take ten fry were still in incubation and will be ponded as swim up fry in early June. Fry averaged 763 fpp. There were approximately 284,984 eggs in incubation at the end of April. On 5/20/15, Kent Hills took 73,059 surplus eyed eggs from Take 10 and injected them into the gravel in the North Fork of the Clearwater River.

Takes 1 and 2 were marked and ponded into System 1 Burrow's ponds (BP's) beginning May 19th. These fish will be reared on reservoir water until they reach at least 60 fpp. Flow in the BP's is approximately 500gpm.

## Dworshak Hatchery Headlines - Izbicki, Sommer Asst. Managers

### SUMMARY

Table 1. Total Production—Fish on Station (5/31/15).

SP	BY	Location	Number	Wt (lbs)	FPP	L in	L mm
SCS BY14	14	fry	2,467,775	4,137	597	1.8	46
COS BY14	14	fry	721,663	1,017	710	1.6	41
SST BY 15	15	fry	1,552,766	6,060	545	2.1	53
SST BY15	15	Systems	720,838	6,694	108	2.98	76
<b>Total Fish/Fry on Station EOM</b>			5,463,042	430,142			

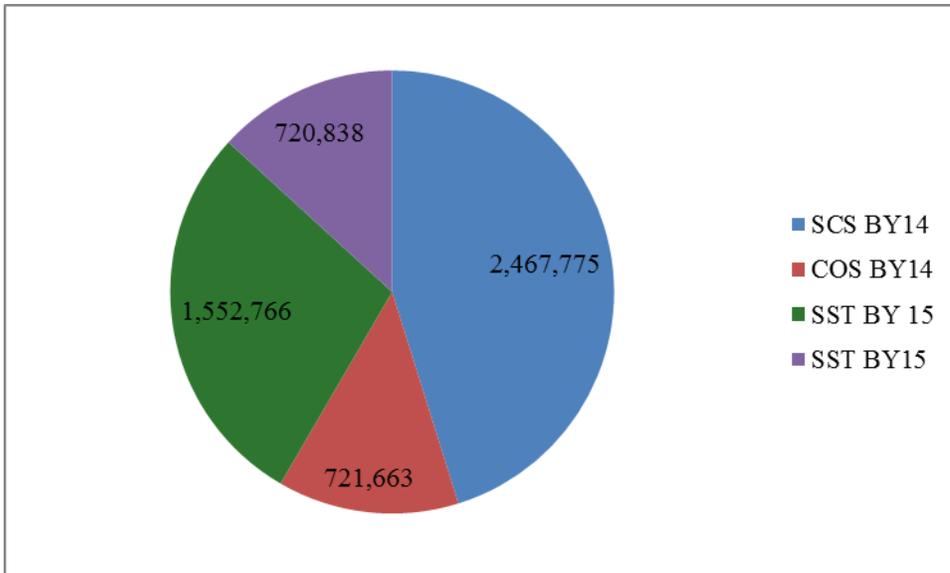


Figure 1. May 31, 2015: Total Fish on Station.



Credit: Jill Olson, FWS

Andrew Schmidt, Nez Perce High School, shows Volunteer Karen Loranger the aquaponics system he constructed for his senior project with guidance from his FWS mentor Jill Olson.



Credit: Jill Olson, FWS

M & E Biologists John Hook and Ray Jones work together to take length and weight data on steelhead fingerlings as they come out of the marking trailer.



Credit: Jill Olson, FWS

## Dworshak Production Monitoring and Evaluation - Peery

- The spring Chinook salmon production coordination group met on May 28th to review production and M and E activities for the month. Topics discussed included the status of BY2015 adult returns and harvest, potential starting date for BY2015 spawning, issues related to ladder operations for broodstock collection, using Draxxin to inject adult females to help prevent BKD, and changing formats for future annual reports. Details are available in the minutes of the meeting by contacting the FRO.
- Staff participated in the weekly technical coordination calls between the Federal, private, state and Tribal co-managers and staffs in the Snake River basin to discuss the pre-season status and progress of adult spring Chinook salmon returning from the ocean to spawn.
- Staff continued to participate with the co-managers and the Lower Snake River Compensation Plan Office in Boise in the development of plans to increase the production of spring Chinook salmon at the various production facilities in the Clearwater River basin, including plans to use Lyons Ferry Hatchery to increase production at Kooskia NFH.
- Biologist Bretz participated with the FINS Technical Advisory Committee in further developing various databases. Spawning data for BY2015 steelhead is continuing to be entered into the FINS database and should be completed by early summer.
- Biologist Peery facilitated the formation of the Steelhead Production Coordination Team and staff participated in the first monthly Team meeting to discuss issues related to BY2015 steelhead
- Biologist Bretz finalized and submitted BY13 and BY14 coded wire tag release data and PITtag release data to RMIS and PTAGIS.
- Staff assisted in BY15 Kooskia NFH spring Chinook broodstock trap sort and data collection and maintained Clear Creek PIT array.
- Staff attended several meetings and participated in developing recommendations for the use of Draxxin.
- Biologists Hook and Jones completed the BY2008 spring Chinook salmon brood year report and submitted the final draft for editorial review and approval. Upon approval the report will be posted the FRO website for public availability.
- Staff completed a white paper on the historical review of ladder operations and broodstock collection. The paper will be posted to the FRO website for public availability.
- Biologists Peery, Jones, and Hook participated in coordinated efforts with the Clearwater River fishery Co-Managers in the development of plans for operating the ladder for collecting spring Chinook salmon broodstock for BY2015.

## **Dworshak Production Monitoring and Evaluation - Peery (Continued from page 4)**

Biologist Hook met with production staff several times to coordinate development of a new spring Chinook salmon annual report for the Complex. The new format will include all the information from M and E, production, and fish health into a single Complex report.

Biologist Peery met with Bill Young with the Nez Perce Tribe to coordinate development of Hatchery Monitoring and Evaluation Plans for spring Chinook and summer Steelhead at Dworshak Complex.

Biologist Hook is completing a historical review of the stock composition of the spring Chinook salmon rack return to Dworshak NFH. Once completed, the paper will be posted to our website for public availability.

### **Administration - Peery**

- Budgets were developed for the various Idaho FRO programs for FY2016.
- Participated in monthly Dworshak Complex Project Lead's meeting and RO project leaders call.

### **Aquatic Conservation - Faler**

- Aquatic Conservation (Faler)
- Biologist Peery participated in Western Lamprey Team conference calls.
- Developed a synthesis report on Pacific lamprey migrations in the Columbia River.

### **Salmon Sub-Office - Brostrom**

- Participated remotely in the FWS Refuges-Fisheries Meeting
- Coordinated with local school garden group to outline high school intern duties and schedule. This position is funded via Youth in the Great Outdoors funding from Dworshak Complex. The intern will work for the next year installing the pollinator and other plots in the new school garden, construct garden and aquatic interactive displays and teaching aids, and participate in local restoration activities.
- Facilitated the ordering of supplies for the pollinator garden, funded by Connecting People with Nature.
- Presented Aquatic Macroinvertebrate Sampling to 60 5th graders from Pioneer Elementary School, Salmon.

### **Snake River fall Chinook Salmon Research - Connor**

- During May 2015, the staff of the fall Chinook salmon research team accomplished the following.
- Fifteen permanent stations located along the Snake River from Hells Canyon Dam to the upper end of Lower Granite Reservoir were beached seine over a three-day period three of four weeks of the month. Juvenile fall Chinook salmon were counted, measured, and PIT tagged.
- The fall Chinook salmon recovery plan was reviewed and comments were coordinated through the regional office.
- SAS code was written to help compile an input data set for estimating the daily passage abundance of natural- and hatchery-origin fall Chinook salmon at Lower Granite Dam.
- An MLE method and a Bayesian method were refined as components of the daily passage abundance modelling framework.
- A manuscript was reviewed for publication in Transactions of the American Fisheries Society.
- Management and administration of the two BPA-funded research projects continued.

## Idaho Fish Health Center

May 2015

**Bacteriology:** Laura received and processed 7 cases: 3 inspections, 2 WFS, and 3 diagnostic. Coldwater Disease (*Flavobacterium psychrophilum*) and *Pseudomonas fluorescens* were confirmed at Dworshak in nursery Tanks 313 and 315. Corie processed two API's for the NPTH FCS. *A. hydrophila/cavei* was identified.

**Virology:** Corie ran a total of 244 samples representing 474 fish from Dworshak NFH, Nez Perce Tribal Hatchery, Kooskia NFH, Kootenai Tribe of Idaho, and the Wild Fish Health Survey. Corie also ran 31 blind passes representing 155 fish from the Hagerman NFH, and the Wild Fish Health Survey.

**PCR:** Laura and Corie received and processed 3 samples for Coldwater Disease, two of which were positive. Laura processed 84 Ns (*Nucleospora salmonis*) samples from viral pellets from spawning, and 20 Hagerman monthly monitoring samples.

**ELISA:** No ELISA tests were run during the month of May.

**Histology:** A total of 115 white sturgeon fin samples from WDFW hatcheries including Wells (sturgeon from Lake Roosevelt) and Chelan were processed, stained and slides read for White Sturgeon Iridovirus testing. All were negative for this virus.

### FWS Hatcheries

**Kooskia:** Guppy visited Kooskia on 5/19 for routine monitoring exam. Fish were also collected on 5/26 for pre-release exam of extra SCS. Corie and Guppy traveled to Kooskia on 5/21 and 5/26 for river fresh sampling of the adult SCS at trapping.

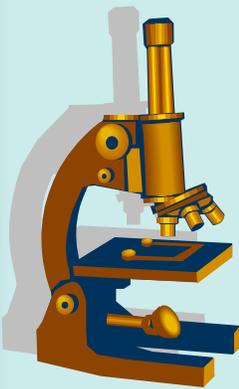
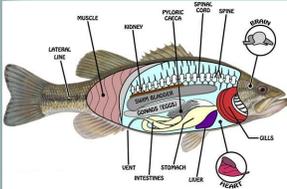
**Hagerman:** Fish were shipped to the Idaho Fish Health Center from Hagerman NFH for the May for monthly monitoring while they were receiving their Steelhead eggs. Some signs of *Nucleospora salmonis* were present. PCR samples are still pending.

**Dworshak:** Corie examined fish from Tanks 313 and 315 on 5/15 which were exhibiting increased mortality. Bacteriology samples were conducted and *F. psychrophilum* was isolated. Medicated Florfenicol feed was already on hand from the medicated feed treatment of tank 212 and recommendation was made to treat these additional tanks. Mortality to date has dropped down to normal. Corie also examined tank 512 on 5/29. Results are still pending.

Laura attended meeting to decide the fate of tanks 502 and 602. These tanks at first suffered from Bacterial Gill Disease and then became positive for Coldwater Disease.

Guppy examined Dworshak SCS for routine monitoring on 5/19. Fish appeared healthy at that time.

Veterinary extra-label prescriptions were written by Guppy for formalin treatments for fungus on Dworshak and Kooskia SCS adults held at Dworshak.



**Idaho Fish Health Center**

(Continued from page 6)

Guppy attended steelhead production meeting on 5/20, annual report meeting for SCS on 5/14, and SCS production meeting on 5/28.

**NEZ PERCE TRIBE:**

Corie collected 60 fish for the NPTH FCS prerelease. *A. hydrophila/cavei* was isolated from these fish but they were not exhibiting any mortality and were to be released as planned.

Veterinary extra-label prescription was written by Guppy for formalin treatments for fungus on SCS adults held at NPTH.

Laura helped with Lamprey released on May 6. Corie assisted the Nez Perce Tribe with genetic sampling on adult lamprey on 5/12.

Monthly exam was conducted by Corie on the NPT Coho on 5/29. Fish appeared healthy at that time.

**KOOTENAI TRIBE:** Three separate shipments of sturgeon eggs, ovarian fluid and milt have been processed for virology for the Kootenai tribe in May.

**Wild Fish Survey:** Laura collected 120 brook trout from Spring Creek. She also helped IDFG map out sample locations based on barriers for both Spring Creek and Mosquito Creek in northern Idaho for an IPNV prevalence study that will be taking place this summer for AVISTA. This is part of the cut-throat trout passage program over Cabinet Gorge Dam.

Laura went to Lake Billy Chinook to help collect wild bull trout and perform injections before transfer.

Laura attended UAT conference call on May 7

**Other:**

Guppy attended a national fish health center conference call hosted by Joel Bader, National Aquatic Animal Health Coordinator on 5/4. Guppy attended the RO Project Leader conference call on 5/11. She also participated in the Dworshak Complex management team meeting on 5/7.

Guppy participated in a management team meeting on 5/11 to discuss possible adult SCS studies using Draxxin injections. A small group was formed which additionally met on 5/14 and 5/21 to discuss options in more depth before coming back to the larger group with recommendations next month.

Guppy called into a multi-agency meeting regarding Draxxin injections for adult Chinook including current research proposals and further study needs on 5/20.

All Idaho FHC staff participated in Region 1 fish health call hosted by Andrew Goodwin on 5/11.

Corie wrote the statement of work and set up contract for vendor to pick up and dispose of outdated chemicals at the Idaho FHC on 5/26.

Guppy participated on call with Gael Kurath, Western Fisheries Research Center on 5/15 to discuss future IHN studies and potential funding sources.

(Continued on page 8)



Thank you,  
**Veterans!**

Dworshak 's annual  
Veteran's Fishing Day!  
May 11, 2015



All photos Credit: Jill Olson, FWS

## Idaho Fish Health Center

(Continued from page 7)

Guppy attended the Snake Basin SCS coordination webinar/conference calls scheduled for every Tuesday morning, as available. She also participated in a conference call hosted by Rod Engle on coordination for an implementation plan for additional LSRCP spring Chinook in the Clearwater Basin on 5/5.

Laura attended AFS ID EX COMM conference call on May 28.

Laura and Guppy worked on updating and submitting 2016 LSRCP and COE budgets.

Corie and Guppy participated on a conference call on 5/29 to discuss a multi-agency publication on pathogens of Pacific lamprey. Corie and Guppy submitted information and comments for the publication prior to the call.

Guppy participated on two conference calls consisting of all FHC project leaders nationally, to discuss changes needed to the FWS Aquatic Animal Health Policy on 5/5 and 5/28.

## Dworshak Maintenance & Operations Activities - Koehler

- Completed automated pond sprinkler system for Kooskia adults in HP 3.
- Completed System 3, pump #1, 20 inch discharge pipe replacement . While we have time before this system is needed, pulled the #1 50 HP motor and sent out to be gone over and any needed repairs performed.
- Two 250 HP Floway/Titan motors and pump bowls sent to be checked out and or rebuilt depending if needed. They may be used as back-up main river pumps, our main source of water, and we will be prepared if called up.
- Completed all COE vehicle body work/repairs; tip-top and ready to go.
- Maintenance staff assisted the contractor in changing HECP clearances at the main pump house/degassing project. Chamber 1 has been filled and chamber 2 drained. The project should be completed on schedule. Both chambers and degassing systems should be fully functional on June 15th.
- Rick King is developing a plan to protect the 8 inch hose on the System 3 clarifier pump system which continually splits due to extreme stress.
- Maintenance and repairs are going on in the quarters. All houses are getting new metal roof screws and new updated indoor lighting. Carpet will be replaced in house 2 and the rest will be shampooed.
- Much more going on, including monthly PM program, pipe insulation, landscaping, weed spraying and keeping up with contracts.
- Well see you next month.



On May 21, the prairie schools completed their "Hatchery in the Classroom" program with the release of over 300 steelhead into Lawyers Creek. "Thank you to... Dworshak Fisheries for their support in making the project such a success." -Lewis Soil Conservation District (LSCD)



## Information and Education

### May Activities



#### Dworshak - Olson

**Facebook Statistics:** Reach - 965 Engagements -173

**Website Statistics:** Unique Visits - 253 Page Loads - 294 First Time visitors - 221 Returning Visits - 32

**Visitors:** 191 people from 14 states, Canada and the Netherlands

**Tours:** Three tours were conducted reaching 54 K-12 students and 18 adults

**Outreach:** May 5-6 Hooks and Ladders with 507 6th graders and 60 adults during Nez Perce County Soil and Water Conservation's Environmental Awareness days on .

May 11 - Veteran's fishing event at Tunnel Pond hosting 12 Veterans and 14 attendants .

May 19 - Orofino High School outdoor education day Lamprey Outreach at Cherry Lane Hatchery for 47 kids and 4 adults.

May 21 - Taught 3 stations and Hatchery in the Classroom steelhead release on Lawyer Creek for 69 kids and 14 adults

May 22 - Careers at the Hatchery presentation, Orofino 7th grade English class ,12 students 2 adults

May 23 Camas Festival presentation: Tribal History with regard to local fisheries programs 12 adults

May 28-29 Hatchery in the Classroom steelhead release, Spalding Park, 417 kids and 78 adults

**Volunteer Hours:** 5 volunteers contributed a total of 82.5 hours in May.

#### Kooskia- Hills

**Visitors:** There were 254 visitors to the hatchery during this month; this figure is compiled by staff. Steelhead and Salmon fisherman are checking the trap.

**Outreach:** May 22 - Kamiah Elementary 3rd grade arrived at the hatchery for a field trip.

## Kooskia Hatchery Headlines

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 Chinook Brood Year 2014

There are 849,362 fish on station; they are 231 fish per pound, and are 2.43 inches (61.7 mm). All fish on station are in the outside rearing tanks, they are on well water at a temperature of 54 degrees. There has been a total mortality of 1,368. They consumed 1,232 pounds of feed.

### Kooskia Adult Trap Operations:

In the month of May we trapped 866 Chinook salmon 366 hatchery males, 457 hatchery females, three hatchery jacks. Wild fish trapped was 20 wild males and 20 wild females. All hatchery fish were transported to Dworshak for brood stock needs. All wild fish were transported nine miles up Clear Creek and released for natural spawning.

### Maintenance & Operations:

- May 04: Burton Construction arrived at the hatchery to complete walk-through details.
- May 06: Burton Construction completed the walk through list. A temperature logger was placed into Clear Creek water in the screen chamber to monitor the temperatures of Clear Creek at the screen chamber as opposed to water temperature 9 miles up Clear Creek.
- May 07: Forest Service held field trips for Kamiah school at the hatchery.
- May 08: Gerry installed new regulator valves in the control panel for the Obermeyer weir.
- May 11: Removed 46 Spring Chinook from the trap, 15 were female and 31 were male; all were transported to Dworshak and ponded in HP #3.
- May 12: Removed 46 Spring Chinook from the trap, 22 female, 24 male, all were transported to Dworshak for brood stock.
- May 14: Staff setup the sprinkling system on the lawn.



Credit: NPT

Art and Kent crowd and sort Spring Chinook salmon from the Kooskia trap. About 774 adults were captured in May.



Credit: NPT

Hatchery staff and Forest Service personnel presented information on Chinook salmon, wild life, and the areas Native American History.



Credit: NPT

**Kooskia Hatchery Headlines**

(Continued from page 10)

- May 15: Kent out-planted Steelhead eggs into the North Fork of the Clearwater River.
- May 18: Staff put back together the Burrows Ponds after the rehab. Kent began repairs on the Riverside Residence.
- May 19: A total of 92 Spring Chinook were taken from the trap, 53 hatchery females, 22 hatchery males, 12 wild females and five wild males. All hatchery fish were transported to Dworshak for brood stock, all wild fish were transported 9 miles up Clear Creek and released into Clear Creek for natural spawning.
- May 21: Removed 95 Spring Chinook from the trap. Consisting of 35 hatchery males, 50 hatchery females, 8 wild males and 2 wild females. All the hatchery fish were transported to Dworshak, all the wild fish were transported 9 miles up Clear Creek and released for natural spawning.
- May 22: Kamiah Elementary 3rd grade arrived at the hatchery for a field trip. Hatchery staff and Forest Service personnel presented information on Chinook salmon, wild life, and the areas Native American History.
- May 26: A total of 135 adult Chinook Salmon were taken from the trap, 65 hatchery males and 70 hatchery females, all were transported to Dworshak for holding. The chiller was turned on to cool the water for Brood Year 14 fry. Gerry rebuilt the trap crowder.
- May 27: A total of 146 Chinook Salmon were taken from the trap, 65 hatchery males, 79 hatchery females and 2 were hatchery jacks. All were transported to DW for brood stock.
- May 28: A total of 260 Chinook Salmon were taken from the trap, 101 Hatchery males, 145 hatchery females, 1 hatchery jack, 7 wild males and 6 wild females. All the hatchery fish were transported to Dworshak for brood stock; all the wild fish were transported 9 miles up Clear Creek and released for natural spawning.
- May 28: The trap was burglarized by unknown persons, the suspects came through the hatchery compound chain link fence at the fishermen's access area by cutting a hole through the fence with bolt cutters. They then cut a hole through the trap fence. A hoop net was used to pull the fish out of the trap the hoop portion of the net was found in the trap. Tribal law enforcement and Fish and Game were called and responded. They did indicate they would increase their presence at the hatchery.

**Training and conferences:**

- Kent to Lapwai and Dworshak for meeting on the 4th.
- Kent to Dworshak for a meeting with Anna on the 6th.
- Kent to Dworshak for meetings on the 7th.
- Kent to Lapwai for a 401k Board Meeting on the 20th.
- Kent to a Clearwater Logging Meeting on the 21st.



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

We can also be found on the web @

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



**Let's Go Outside!**

**Connecting People With Nature**

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

## Staff List

### Complex Management:

Steve Rodgers, Complex Manager

Mark Drobish, Project Leader

Adam Izbicki-FWS & Jeremy Sommer-NPT (acting)  
Assistant Hatchery Managers

Mike Tuell, SRBA Coordinator

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

Scott Koehler, 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

**Dworshak Production Staff :** 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:** Randy Bowen, Anna Ray (on Detail from Hagerman National Fish Hatchery), Administrative Officer– Vacant

**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

**Information and Education:** Jill Olson

**Kooskia National Fish Hatchery:** Art Broncheau, Kenny Simpson, Gerry Fogelman