



Dworshak Fisheries Complex

Monthly Activity Report



March 2015

U.S. Fish & Wildlife Service, Region 1

Volume 4, Issue 5

Highlights:

**Reach to 16,748 people
on FACEBOOK
with posting of the
Spring Chinook Release !**

- Dworshak -
**Total Fish, Alevins, Eyed
Eggs 8,143,771**
- Kooskia -
BY14 Chinook 859,129

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Manager's Message



Steve Rodgers, Complex Manager

This Hatchery Complex produces a lot of fish. We raise and release smolts to meet mitigation objectives that support fisheries. We raise fish to supplement natural populations that are in decline. We deal with ESA-listed stocks (Dworshak B-steelhead) and fish populations that were effectively extirpated (spring Chinook and coho).

To make these fish, it requires animal caretakers and technicians who do the work on the ground, feeding and caring for them. We have maintenance folks that keep all the equipment and infrastructure in good working order. We employ trained professional fish health pathologists, who confirm when our fish are sick and help us to make them well. We also have a team of researchers who evaluate what's working and where we can do better. And just as important, we have administrative personnel who process a mountain of paperwork so everyone else can accomplish their work.

These last few months have clearly shown me how important our administrative employees are. The work they do is critical. They setup agreements, contracts and funding. They give you the power to purchase the tool you need to do your job, and then make sure the supplier is paid for selling you the tool. They have a hand in vehicle use, and uniforms, and travel, and all kinds of routine and non-routine stuff. They do all of this work within a very strict and bureaucratic system. They are asked to enforce requirements and policy,

and somehow do so with tact and diplomacy. Quite frankly, without our admin folks this complex could not function.

This month I'd like to thank Steve Bradbury and Penny Hasernohl for a job well done. They're both gone now, but I still want to recognize the excellent work they did. And I want to thank Anna Ray from Hagerman NFH and Margaret Anderson from LSRCP for their help during our admin crunch... without which our productivity would have come to a screeching halt. Anna has done an incredible job helping us, both locally (through a lot of windshield time and long days) and remotely. Tish Whitman, an administrative specialist for the NPT, has also helped where she could, keeping things flowing between the Service and Tribe. And finally, I want to thank Randy Bowen. Somehow he went from hatchery technology expert retiring in June to Admin workhorse sticking around until the end of the year. His willingness to take on admin duties on top of his IT role, coupled with training and guidance from Anna, has made him even more valuable than he already was.

Sometimes we don't appreciate what we have until it's gone. To all the administrative employees that ensure our machine moves forward... THANK YOU.

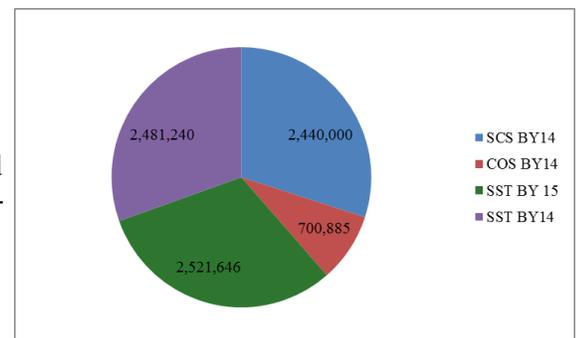


Figure 1. March 31, 2015: Total Fish on Station.

Hatchery Headlines: *Dworshak Spring Chinook Salmon*

Brood Year 2013 (BY13)

All Spring Chinook were direct released into the north fork Clearwater River on March 25-26. There were 1,550,313 SCS averaging 21.6 fpp and 136mm (5.4 inches). The fish were released in the evening to reduce predation and to mimic their natural migration time.

Table 1. BY 2013 SCS release summary.

	Bank	RW #	Number	Wt	fpp	Length in	Length mm	Density Index (at release)	Flow Index	Release Dates	notes
Direct Rel Total	A	A1-A15	714,299	32,917	21.7	5.4	136.0	0.30	0.68	25-Mar-15	Flow
Direct Rel Total	B	B16-B21	403,900	19,540	20.7	5.4	138.3	0.44	0.57	26-Mar-15	High Density
Direct Rel Total	B	B22-B30	431,064	19,368	22.3	5.3	134.9	0.30	0.39	26-Mar-15	Low Density
ACOE study	BP 71		1,050	48	21.7	5.4	136.0			6-Apr-15	
Total/Ave			1,550,313	71,873	21.6	5.4	136.3	0.35	0.55		

Brood Year 2014 (BY14)

There are 2.44 million aelvin currently in Dworshak production. Percent mortality from eye to hatch was 1.2%. Alevin are being incubated on secondary reservoir water chilled to 37 degrees. Ponding is scheduled for mid-April.

Hatchery Headlines: *Dworshak Summer Steelhead (SST)*

Brood Year 2014

There were 2,481,240 SST in the Burrow's Ponds at the end of February averaging 7 fpp (7.50 inches). There were 619 mortalities (0.03%). All fish are being reared on river water at about 700 gpm and water temperature was 43 degrees. Fish are on track to be released in April at 6 fpp.

Brood Year 2015

Spawning continued in March. There were a total of 211 females spawned in from South Fork localized broodstock for Clearwater Hatchery, 44 females spawned for Magic Valley Hatchery, and 169 females for Dworshak providing approximately 1,105,429 green eggs. Takes 1 and 2 were early returning fish and were kill spawns; takes 3, 4, and 5 were air spawned for the CRITFC/NPT Kelt program. Takes 5-8 were South Fork Localized Broodstock. Fish were spawned for Magic Valley during Take 8; fish were spawned for Dworsahk production during Takes 7-9. There will be one more take in April to conclude this spawning season. Expected fecundity is 6541 eggs/female for kill spawning, and 5773 eggs/female for air spawning.

At the end of March, there were 1,635,861 fry in the nursery from takes 1-5. Some of these fish were ponded as swim up fry and some were put into egg jars after enumeration. Fry averaged 1,069 fpp.

Hatchery Headlines: *Dworshak Coho Salmon (COS)*

Brood Year 2013

Coho were transferred to Kooskia National Fish Hatchery for acclimation and release. The full Coho report can be seen on page 4.

Brood Year 2014

There are 700,885 BY14 Coho in DNFH A-Bank. Aelvin are being incubated on chilled water (37°F).



Credit: :NPT

A total of 33 Steelhead were taken from the trap, 19 hatchery females, 11 hatchery males, 1 wild female and 2 wild males. The hatchery fish were transported to Stites Park and released into the South Fork of the Clearwater River. The wild fish were transported 10 miles above the weir and released into Clear Creek.



Credit: NPT

Table 1. Total Production—Fish on Station at Dworshak (03/31/15).

SP	BY	Location	Number	Wt (lbs)	FPP	L in	L mm
SCS	14	alevin/incubation	2,440,000				
COS	14	alevin	700,885				
SST	15	eggs/fry	2,521,646				
SST	14	Systems	2,481,240	367,792	7	7.5	191
Total Fish/Fry on Station EOM			8,143,771	367,792			

Hatchery Headlines: *Kooskia*

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 2013

661,441 smolts were released into Clear Creek on March 11, they were 24.4 fish per pound, and they were 5.15 inches (131 mm). These fish were fed 515 pounds of feed. Total mortality of 68, the fish were on creek water at an average of 37°F.

Kooskia Chinook Brood Year 2014

There are 859,129 fry on station; they are all in the outside rearing tanks, they are on well water at a temperature of 53°F. There has been a total mortality of 14,850, mostly due to genetic issues. They consumed 184 pounds of feed.

Dworshak Coho Brood Year 2013

On Feb 24th a total of 364,550 Coho smolts arrived at Kooskia Hatchery from Dworshak Hatchery to be acclimated on Clear Creek water prior to release. These were placed in raceways 1-8. A total of 183,628 Coho from the Eagle Creek Hatchery arrived at Kooskia for acclimation on March 4th. These fish were placed in raceways 9 thru 12. On Mar 17th, 5,000 pit tags were placed into Coho in raceway one by Nez Perce Tribal Fisheries personnel. Coho were released on March 24th and 25th. There were an additional 56,000 Coho from the Eagle Creek Hatchery directly released into Clear Creek in front of the trap on March 4th.

Clearwater Chinook Acclimation Brood Year 2013

On March 12th, 595,200 Chinook smolts arrived at Kooskia Hatchery for acclimation to Clear Creek. There were also 56,000 Chinook smolts that were direct released into Clear Creek. On March 23rd, 594,865 Clearwater Chinook smolts were released into Clear Creek. There was a total mortality of 335 fish while at Kooskia Hatchery.

(Continued page 10)

Maintenance & Operations Activities

March 2015



Credit: Jill Olson USFWS



Credit: Jill Olson USFWS.

Evening releases of Spring Chinook Salmon smolt took place on the March 25 and 26.



Credit: Jill Olson USFWS.

Dworshak -

- Maintenance has spent time this month completing required training such as FISSA security training and different levels of HECF, otherwise known as Lock out Tag out.
- We have spent a lot of time moving water and adjusting temperatures as needed
- Spring has arrived and landscaping and mowing is in full swing
- Installed four new 12” mud valves in raceways #24, #25, #26, #27
- Trouble shoot problems with chiller #2
- Check and prepare tractor and trailers used for release to include Oxygen supply
- Removal of all snow plows (Finally)
- Weed spraying has begun
- Inspections of hatchery living quarters have been completed and plans made to complete work
- Fire ext. and first aid kits have been inspected and updated
- The main aeration chamber de-gassing project is coming up and meeting and planning sessions have begun
- New 220 volt,3 phase outlet was added for new fish pump for incubation
- Rick has spent many days supporting production, driving fish truck and throwing fish.
- We have changed all combination pad locks on site to locks that open with the complex mater key that fits all outside doors
- We also prepare for the yearly power shut down scheduled with Clearwater Power and Avista
- Install of new window and exhaust fan in the feed building for battery charging
- And as always we continue to keep up with our Preventative Maintenance work orders.

(Continued page 6)

Idaho Fish Health Center**March 2015**

Bacteriology: Samples tested for bacteria included fish from 11 pre-release, 6 Hagerman NFH diagnostics, and two spawning events.

Virology: Corie along with Ashlie Peterson ran a total of 149 samples representing 404 fish from Dworshak NFH, Nez Perce Tribal Hatchery, Nez Perce Tribe Coho program, Hagerman NFH and the Nez Perce Tribe Fall Chinook salmon acclimation program. She also ran 158 blind passes representing 548 fish from Dworshak NFH, Kooskia NFH, Nez Perce Tribal Hatchery, Nez Perce Coho program and the Hagerman NFH.

PCR: Laura extracted samples from Hagerman NFH but not amplified yet. In addition, 6 samples were tested for CWD, but were found to be negative by PCR.

ELISA: No samples were tested by ELISA in March.

FWS Hatcheries

Kooskia: Guppy visited Kooskia on 3/27 for routine monitoring exam of spring Chinook fry. Two tanks with higher mortality were examined, but no pathogens were found and mortality appeared to be caused by twining and other genetic problems.

Hagerman: Rainbow trout were shipped to the Idaho fish health center for the March monthly inspection. Fish were exhibiting signs indicative of the parasite *Nucleospora salmonis*. Bacteriology samples were taken along with *N. salmonis* PCR samples. Because the rainbows are on main spring water the stomachs were checked for New Zealand mud snails.

Dworshak: With David Thompson's assistance, spring Chinook from both low and high density raceways were examined for pre-release on 3/2 and 3/3.

Corie, David, Ashlie, Laura and Guppy all assisted on different dates in taking fish health samples during Takes 5, 7, 8, and 9 for steelhead spawning at Dworshak on 3/3, 3/17, 3/24, and 3/31.

David also assisted by performing a diagnostic exam for spring Chinook salmon in raceway B21. Higher mortalities appeared to be due to pinhead fish dropping out at this time.

David Thompson examined steelhead for pre-release exam from both systems 1 and 2 on 3/4.

Corie examined Tanks 502 and 602 on 3/30 and 3/31. Fish were found to have bacteria on the gills. A Chloramine T treatment was performed. Bacteriology samples were taken from the kidneys.

NEZ PERCE TRIBE:

David Thompson and Corie examined Coho salmon for pre-release on 3/5.

Laura and Ashlie examined yearling fall Chinook from Captain John Acclimation Site for pre-release on 3/25.

Corie and Laura examined subyearling fall Chinook salmon from Lyons Ferry Hatchery in WA for import/pre-release exam for the fall Chinook Acclimation Program on 3/31.

Wild Fish Survey:

Laura attended the monthly UAT call on 3/5.

Laura also consulted with Idaho Fish and Game and AVISTA on future disease sampling needs and studies for tributaries to the Clark Fork River as part of the Cabinet Gorge Fish Passage (Bull trout).

Other:

David Thompson from the Lower Columbia River FHC assisted the Idaho FHC during the week of March 2-6.

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Maintenance & Operations Activities

(Continued from page 4)

Kooskia -

- Mar 03: Trap was opened.
- Mar 04: The release tube for releasing smolts into Clear Creek in front of the trap was put in place.
- Mar 05: Gerry began preparing the bio-filter for brood year 2014 fry to be placed in the outside rearing tanks. Trap was opened to trap steelhead.
- Mar 09: Piping was put out to transport BY13 smolts from the burrows ponds to Clear Creek in preparation for release.
- Mar 11: Released 661,441 brood year 2013 spring Chinook into Clear Creek.
- Mar 12: 595,200 Chinook smolts arrived from Clearwater Hatchery for acclimation to Clear Creek, they were put into the burrows ponds 1 thru 6. An additional 56,000 were direct released into Clear Creek.
- Mar 14: Take one and take two of brood year 2014 spring Chinook were moved out of the nursery and into the rearing tanks.
- Mar 16: Part of take three brood year 2014 were moved to the outside rearing tanks.
- Mar 17: The remainder of brood year 2014 were moved to the outside rearing tanks. All together 873,979 fry were moved into 32 outside rearing tanks. 5,000 Coho in raceway one were implanted with pit tags by Nez Perce Tribal Fisheries tagging personnel.
- Mar 19: Kent and Gerry travelled to Dworshak to assist with chiller issues.
- Mar 20: Kent, Gerry and Richard (a volunteer) began sheet rocking the shop.
- Mar 23: A total of 594,856 spring Chinook smolts were released into Clear Creek.
- Mar 24: Personnel from Burton construction and Zac from USFW arrived for a pre-construction meeting concerning the burrows ponds rehab. 125 Steelhead were taken from the trap, 60 hatchery females, 55 hatchery males, 1 hatchery jack, 6 wild females and 3 wild males. The hatchery fish were transported to the Stites Park and released into the South Fork of the Clearwater River. The wild fish were transported 10 miles above the weir and released into Clear Creek. All Coho smolts from raceways 8 through 12 were released into Clear Creek.
- Mar 25: A total of 33 Steelhead were taken from the trap, 19 hatchery females, 11 hatchery males, 1 wild female and 2 wild males. The hatchery fish were transported to Stites Park and released into the South Fork of the Clearwater River. The wild fish were transported 10 miles above the weir and released into Clear Creek. Coho from raceways 1 through 7 were released into Clear Creek.
- Mar 30: Marilyn Blair from fish health inspected brood year 2014 and took samples for testing.



Credit: NPT

Gerry began preparing the bio-filter for brood year 2014 fry at Kooskia Fish Hatchery



Credit: Kent Hills NPT

Released 661,441 brood year 2013 spring Chinook into Clear Creek.



Credit: Kent Hills NPT

Idaho Fish Health Center

(Continued from page 5)

Ashlie Peterson from the Dexter Fish Health Center arrived on 3/23 to assist the Idaho FHC for 4 weeks.

Guppy participated in two conference calls hosted by Rod Engle on coordination for an implementation plan for additional LSRCP spring Chinook in the Clearwater Basin on 3/9 and 3/27.

Laura and Guppy attended a national fish health center conference call hosted by Joel Bader, National Aquatic Animal Health Coordinator on 3/9. Corie participated in Region 1 fish health call hosted by Andrew Goodwin on 3/30.

Guppy attended two production meetings concerning spring Chinook and one regarding steelhead at Dworshak on 3/2. Laura attended the Spring Chinook ponding strategy meeting on 3/31.

Corie called into the Lamprey Workgroup Webex meeting on 3/3.

Corie and Guppy participated on conference call with Steve Rodgers and Hagerman NFH to discuss the Hagerman RAS study on 3/4.

Guppy submitted the RO self-safety audit forms for laboratory, office and vehicles to be combined with the Dworshak Complex safety audit package and returned to the RO.

Guppy attended the RO Project Leader conference call on 3/9.

Laura attended the Idaho Chapter AFS meeting, where she picked up three students to mentor in fish health. She helped to organize a CE workshop entitled "Inflow-Outflow, Responsible & Efficient Fish Culture", which had 43 participants. Also at this meeting, Laura was able to present Dr. Christine Moffitt with the Excellence in Aquaculture award this year. As Co-chair of the Aquaculture committee, she lead the Aquaculture section break out meeting and was able to re-define the goals of the committee, and update the mission statement.

Guppy attended the Lower Snake River Compensation Plan meeting 3/10-3/12. She gave a short presentation of FWS Region 1 Draxxin study results to date.

Laura and Guppy attended the Annual Fish Health Biologists Meeting in Roswell, NM from 3/16-3/20. Issues such as the Wild Fish Health Survey and the FWS Aquatic Animal Health Policy were discussed. Guppy also participated in an evening meeting with Sonia Mumford (Olympia FHC) and David Thompson (Lower Columbia River FHC) as a Region 1 committee to discuss and formulate guidelines concerning antibiotic injections for adult broodstock. Laura volunteered to be on a QA/QC development committee that was reenacted.

Corie called into the Region 1 Data Management Workshop conference call on 3/18.

All staff assisted with giving an in-depth tour on 3/24 of the Idaho FHC and Dworshak NFH to the University of Idaho fish health class taught by Ken Cain.

Guppy attended the Snake River Fall Chinook Coordination meeting through calling into the webinar on 3/26.

Laura, Ashlie and Guppy attended retirement training hosted by the Corps of Engineers at the Dworshak Dam visitor center on 3/30.

Laura participated in a biosecurity conference call with Jason Peterson and the water Resources group at the Nez Perce Tribe.

Aquatic Conservation– Faler



Credit: FWS

Fish-eye view of the Complex!

- Discussed and approved upcoming modifications in field work associated with the Mountain Whitefish Response to Climate Change project in the upper Lochsa River with John Hook.
- Participated in the monthly NWR Climate Change monitoring conference call, and provided an update for monitoring on Kootenai NWR.
- Attended the annual ACT meeting in Vancouver, and participated in the development of the regional ACT strategic plan.
- Downloaded hobo temperature loggers on Myrtle Creek for the aquatic climate change monitoring program on National Wildlife Refuges.
- Initiated an Interagency Agreement with the Idaho Panhandle National Forest to assist with funding for 2 fish passage projects for westslope cutthroat and bull trout in the Kootenai and Pend Orielle river basins.

Snake River fall Chinook Salmon Research - Dr. William Connor



Credit: FWS

Chris Peery checking a male steelhead for a coded-wire tag.

- Completed FY2015 SOW, Budget, and Property Inventory and forwarded the packet to BPA.
- Gave a plenary talk at the Idaho Chapter of the American Fisheries Society.
- Completed the Annual Report of Research for BPA.
- Completed the Annual RPA Report for BPA.
- Conducted other miscellaneous management and administration responsibilities for our two BPA-funded fall Chinook Salmon projects.
- Worked with USGS staff on AMIP modeling activities.
- Worked with NOAA staff on responses to the Corp-funded Consensus Study on Dam Passage Strategies and Experiences.
- Worked with NOAA staff on the Snake River fall Chinook Salmon Recovery Plan.
- Worked with Idaho Power Company and University of Idaho Staff on a journal article describing the use of Unmanned Aircraft Systems for counting fall Chinook Salmon redds.
- Cleaned IFRO field equipment storage facilities.
- Developed a standardized fall Chinook Salmon redd count data base.
- Secured scientific collection permits from NOAA, ODFW, WDFW, and IDFG.
- Began beach seining juvenile fall Chinook Salmon along the Snake River (3 d/wk; through June).
- Attended the spring meeting for fall Chinook Salmon management and research coordination.



Credit: FWS

Ray Jones taking a snout to recover a coded-wire tag .

Hatchery Monitoring and Evaluation Accomplishments– submitted by Ray Jones

- Status of discharges in the Clearwater River and Lower Granite Reservoir were monitored and reported in preparation for spring Chinook salmon smolt releases from Dworshak NFH. Weekly updates were sent to Co-Managers and other agencies.
- The spring Chinook salmon production coordination group met on March 16th to coordinate activities for the spring. The current status of production groups and evaluation studies was reviewed. BY13 chinook smolts were scheduled for release on March 25th and 26th.
- The FRO contacted the Idaho Department of Fish and Game to coordinate spring Chinook salmon smolt releases from Dworshak NFH with smolt trapping operations in the Clearwater and Snake rivers.
- The FRO contacted the Lower Columbia River Fisheries Program Office to solicit assistance in requesting an increase in discharge out of Dworshak Reservoir from the ACOE during smolt releases.
- Staff attended the Nez Perce Tribal 5-year review of their salmon supplementation program.
- Staff participated in the meeting of the Idaho American Fisheries Society Salmon forecasting workshop in Boise, Idaho.
- Staff attended several planning meetings for increasing spring Chinook salmon production in the Clearwater River.
- Staff attended the annual meeting of Lower Snake River Compensation Plan program and presented information on the current status of the spring Chinook salmon production program at Dworshak NFH and a summary of information from the ongoing density evaluation study.
- Participated in Takes 5, 6, and 7 for summer steelhead spawning; collected coded-wire tags; coordinated with the production staff to complete spawning activity reports for spawning takes 5, 6, and 7.
- Reviewed draft US v. Oregon production documents and provided comments to LSRCP office in Boise. Samples were collected to measure on-station performance of spring Chinook salmon for the rearing density and flow evaluation projects.
- The FINS Trapping Module for BY15 Steelhead was updated.
- Completed FINS Spawning Module BY15 SST Takes 1 and 2.
- Completed BY14 spring Chinook coded wire tag retention checks at KNFH and DNFH.
- Completed data requests from NOAA and IDFG



Credit: Jill Olson, FWS



Credit: Jill Olson, FWS

What does Hatchery in the Classroom mean to the Dworshak crew?

It means 14 tours which allow us to educate 578 K-12 students and 110 adults!

Those are productive spawning days!



Credit: Jill Olson, FWS

Jody Brostrom –Salmon, Idaho

- February 24-27 Attended Fisheries Project Leaders Meeting in Vancouver, WA.
- March 2-4 Attended Lamprey Technical Workgroup Meeting in Portland, WA
- March 9-12 Attended Aquatic Conservation Team Meeting in Vancouver, WA. Topic was developing a Regional ACT Business Plan.
- Months of February and March: Worked with the Idaho Department of Fish and Game State Wildlife Action Plan for the Beaverhead Ecoregion.
- Submitted a proposal for Connecting People With Nature. Focus is developing a pollinator garden within the new Salmon High School food garden. Request was for irrigation supplies, a beehive, soil testing kit and pollinator curricula.
- Attended a Citizen Science meeting for the Salmon/Challis area.
- Met with landowners, Idaho Fish and Game and NRCS for Partners for Fish and Wildlife projects to provide native vegetation for nongame bird, pollinator and wild turkey habitat.
- Met with landowners and partners for a Partners for Fish and Wildlife project to fence out a high desert spring from livestock grazing and camping access, build a 900 foot water pipeline for livestock watering, and revegetation the spring area to improve habitat for sage-grouse and other wildlife species.
- Listened in on webinars concerning aquatic habitat restoration and monarch butterfly conservation.
- Participated in 3 Western Lampreys Conservation Team calls and a Pacific Lamprey Senior Conservation Team call/webinar.
- Prepared interagency financial paperwork for processing of National Fish Passage Program funded projects in central/southern Idaho.

Hatchery Headlines -Kooskia

(continued from page 3)

Kooskia Adult Trap Operations:

Trap is open. 158 Steelhead were taken from the trap, 79 were hatchery females, 66 were hatchery males, 1 was a hatchery jack, 7 were wild females, and 5 were wild males. All hatchery fish were released into the South Fork of the Clearwater River at Stites Park. The wild fish were released into Clear Creek 10 miles above the weir. Fin samples were taken from all wild fish for Idaho State Fish & Game.

Training and conferences:

Kent attended a SRBA meeting held at Kooskia Hatchery on 3/18/2015.

Pre-construction meeting with Burton Construction on the 24th.

Kent & Gerry had a meeting with Idaho County Roads to discuss the replacement of the bridge over Clear Creek on Toll Road on the 25th.



Information and Education Corner

March Activities



Dworshak–

Website Statistics: Page Loads - 380 Unique Visits– 285, First Time visitors - 245, Returning Visits– 40

Facebook Reach: 19,383 ; Engagements - 2,286

Visitors: 213 people from 13 states, Canada and Mexico

Tours: 14 Tours were conducted reaching 578 K-12 students and 110 adults

Outreach: 6 Hatchery in the Classroom visits (presentations and eyed-egg delivery) to 127 students; 7 adults

One classroom adult steelhead dissection for 32 students 8 adults.

Volunteer Hours: Eight volunteers contributed a total of 114.25 hours

Kooskia-

Visitors: There were 165 visitors to the hatchery during this month; this figure is compiled by staff.

Outreach: Steelhead presentation at Kooskia Elementary School 3/3/2015

Steelhead presentation at Kamiah Elementary School 3/16/2015

Staff List

Complex Management

Steve Rodgers, Complex Manager

Mark Drobish, Dworshak NFH Manager

Mike Tuell, SRBA Coordinator

Dr. Marilyn “Guppy” Blair, Idaho Fish Health Ctr.

Mike Faler, Aquatic Conservation Lead

Adam Izbicki, Maintenance Supervisor

Dr. William Conner , Fall Chinook Research Lead

Kent Hills, Kooskia NFH Manager

Dr. Chris Peery, Fish Production M&E Lead

Dworshak Production Staff

Jeremy Sommer, Jill Olson, 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 Natl fish Hatchery)

Maintenance

Scott Koehler, Terry Weeks, Rick King, Rob Kellar, James Oatman, James Paddelty, Melissa Wright, Joe Livesay

Idaho Fish Health Center

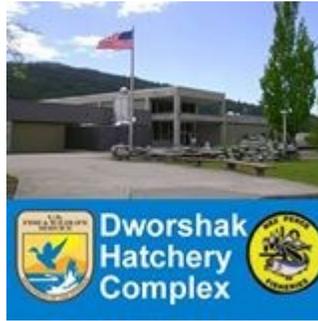
Laura Sprague, Corie Samson

Idaho Fishery Resource Office

Ray Jones, Aaron Garcia, Carrie Bretz, Frank Mullins, Jody Brostrom, Ken Bugler, John Hook, Brad Buechel

Kooskia National Fish Hatchery

Art Broncheau, Kenny Simpson, Gerry Fogelman



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Dworshak Fisheries Complex

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Let's Go Outside!

Connecting People With Nature

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

We can also be found on the web @

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



