



Dworshak Fisheries Complex

Monthly Activity Report



February/March, 2014

U.S. Fish & Wildlife Service, Region 1

Volume 3, Issue 3

Special points of interest:

- Total Fish on station at Dworshak: 9,508,527
- Total Fish on station at Kooskia: 676,061
- Brood Year 12 Coho were released in March!

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Manager's Message

Last month I focused on introducing Mike Tuell, our new SRBA Coordinator, to everyone in the Complex. This month I'd like to highlight all the great work his predecessor Kent Hills did during his time as SRBA Coordinator over the last year and a half.

Not long after moving over from IDFG to accept the Kooskia Hatchery Manager position for the NPT, Kent was asked to take on an acting role as the SRBA Coordinator for the Complex. Initially it was intended that Kent would only take on this responsibility for a few months, and then it would be filled or rotated to other folks. Then reality hap-

pened, and Kent did both the SRBA AND Kooskia Hatchery Manager jobs simultaneously for almost two years! This is very impressive, and a testament to Kent's dedication and "team player" approach. I know everyone in the Service and Tribe is grateful to Kent for his willingness to do both jobs until a permanent Coordinator was hired.

Kent has done a fantastic job at Dworshak as SRBA Coordinator on a number of levels. His training and teaching of the newer fish culturists is an investment that will pay dividends for years to come. His on-the-ground style, working right beside the folks he supervises, has set a great

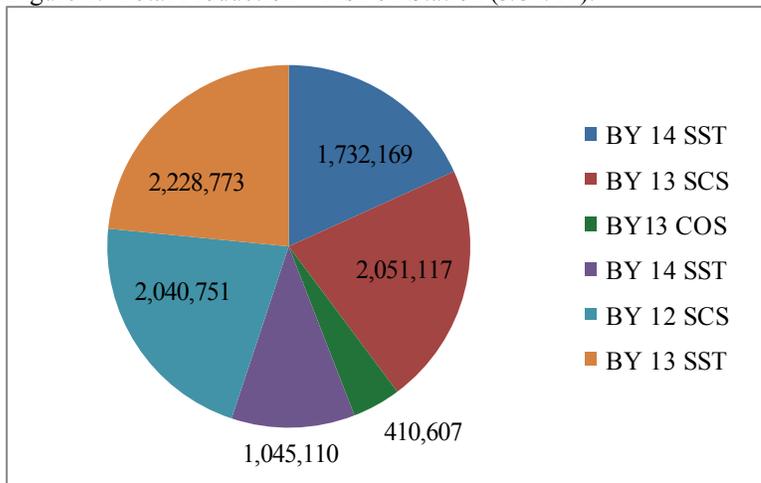


Steve Rodgers, Complex Manager

example of leadership. His willingness to act as liaison between the Tribe and Service, with a direct, common-sense approach, has helped lead to a wealth of accomplishments including achieving SRBA targets well in advance of stated goals. Finally, Kent has put in countless hours beyond his pay to get the mission accomplished. This kind of dedication is uncommon, and speaks to Kent's passion for fish and the people who raise them.

Production Summary: Dworshak National Fish Hatchery

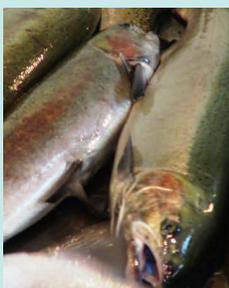
Figure 1. Total Production—Fish on Station (3/31/14).



Chinook hatching. Credit: Angela Feldmann/USFWS

SCS=Spring Chinook; CW SCS=Clearwater Hatchery Spring Chinook; SST= Steelhead; COS=Coho





Adult steelhead.

Credit: Angela Feldmann/USFWS

“Steelhead spawning continued through March.”



Putting eggs in incubation.

Credit: Angela Feldmann/USFWS

Hatchery Headlines: Dworshak Spring Chinook Salmon (SCS)

Brood Year 2012 (BY12)

One million surplus fry are being raised in BPs 53-71. At the end of the month there were 2,040,751 BY 12 SCS on station averaging 25 fish per pound (fpp) and 130 mm (5.1 inches) total length. Meadow Creek fish were released on March 27. In all 276,689 fish at 24 fpp were taken in four trucks to the Meadow Creek release site. There were 348 (0.02%) SCS mortalities in the raceways (RWs) and System III during the month. Fish in the B bank raceways are on serial reuse and average flow is 1031 GPM. Flow in the BPs is 1000 GPM. Water temperature averaged 40.5°F in the RWs.

Brood Year 2013 (BY13)

There are currently 2.05 million alevin being incubated on secondary water at about 40.5F. These fish will be ponded as swim up fry at the end of April.

Hatchery Headlines: Dworshak Summer Steelhead (SST)

Brood Year 2013

At the end of the month there were approximately 2,228,773 BY 13 SST in the BPs averaging 7.0 fpp and 189 mm (7.4 inches) total length. There were 881 (0.04%) mortalities this month. Systems I, II, & III are on river water; average water temperature was 40.5 °F and average flow was 710 gpm.

Brood Year 2014

Steelhead spawning continued in March. There were 150 females spawned for Dworshak stock providing 1,005,000 green eggs assuming fecundity at 6700 eggs per female. 237 females were spawned for Clearwater Hatchery; 169 females going Clearwater Hatchery Broodstock and 78 females for South Fork Localized Broodstock. 1,045,110 fry from Takes 1-3 were ponded in the nursery at the end of March but won't go on feed until early April. 727,169 eyed eggs from Takes 4-5 were put into egg jars in the nursery.

There were 4,400 eyed eggs sent to UW for research, 2,100 eyed eggs sent out for the Hatchery in the Classroom program, and 218,389 eyed eggs shipped to the Yankee Fork Egg Box program.

Hatchery Headlines: Dworshak Coho Salmon (COS)

Brood Year 2012

There were 328,189 Coho were transferred to Kooskia for acclimation and then released into clear creek. Fish were volitionally released at 20.5 fpp and 132mm (5.18 inches).

Brood Year 2013

There are currently 410,607 eyed eggs in 5 stacks at Dworshak. Coho eggs are being incubated on chilled water. The full Coho report can be seen on page 4.

Hatchery Headlines: Kooskia

Kooskia NFH Monthly Activity Report

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 NFH is owned by the USFWS and managed by Nez Perce Tribal Fisheries.

Credit:USFWS

Kooskia Adult Trap Operations Brood Year 2013

Due to high water flows Ice jams and debris the weir was up a lot in March which hindered trap operations.

The picket weir is down at this time.

Kooskia Chinook Brood Year 2012

A total of 628,007 smolts from Brood Year 2012 were released into Clear Creek, on March 19. Water flow in Clear Creek was high and the water was turbid providing some cover for the migrating smolts. The smolts were 32 fish per pound and were 4.7 inches long. The fish were fed 1,542 pounds of feed. The water temperature varied between 37 and 44 degrees F. The pre-release pathology report was good. No pathogens were found in the tissue samples that were tested.

Kooskia Chinook Brood Year 2013

Spring Chinook fry on station is 676,061, mortality for the month was 9,313, this number is due to undeveloped fry, mostly in take one. Button-up fry were moved from the incubation tray to the outside vats March 10th to the 12th. Fry were started on feed the next day after ponding; they received 185 pounds of bio-Oregon started this month. Fry are doing well and had their first pathology evaluation on and the first pound count will be done the first of the month.

Kooskia Coho Brood Year 2014

There are 82,779 Coho Button-up fry on station. On March 18th through 24th, fry were moved from the incubation trays and placed in the inside vats 18 through 24 each vat contains approximately 12,000 fry. Coho fry were started on feed the next day, total feed used this month was 10 pounds. Mortality for the month was 341. We will be rearing these fry to approximately 100 fish per pound before release if possible depending on release stream temperatures.

Total Fish on Station: Dworshak, 3/31/2014

SP	BY	Location	Number	Wt (lbs)	FPP	L in	L mm
SST*	14	eggs/incubation	1,732,169				
SCS	13	alevin/incubation	2,051,117				
COS	13	eggs/incubation	410,607				
SST*	14	fry/Nursery	1,045,110				
SCS	12	RWs 1-30; Sys III	2,040,751	82,869	25	5.1	130
SST*	13	SST Sys I, II, III	2,228,773	320,606	7	7.4	189
Total Fish/Fry on Station EOM			9,508,527	403,475			

Hatchery Headlines: Nez Perce Tribal Fisheries

Performance for March 2014, BY 12 Coho

The inventory of Brood year 2012 Coho on April 1st showed 503,003 (328,189NPT) Clearwater-stock in twelve raceways at Kooskia National Fish Hatchery (KNFH) as shown in Table 1 below. These fish were voluntarily released into Clear Creek.

Table 1. Brood year 2012 Coho inventory as of April 1, 2014.

RWs	Number of fish	Weight (lbs.)	FPP (average)	Length (inch)	Comments
1	40499	1866	22	5.09	PIT
2	39761	2008	20	5.25	
3	41073	1965	21	5.15	
4	42150	2087	20	5.21	
5	41160	2028	20	5.20	CWT
6	41483	2127	20	5.27	CWT
7	42274	2023	21	5.15	
8	39789	1904	21	5.15	
9	43321	2348	18	5.37	
10	44077	2661	16	5.60	PIT
11	44088	2437	18	5.41	CWT
12	82762	2583	17	5.51	PIT
Totals	503,003	26036	19	5.29	

MORTALITY:

The average percent mortality for Clearwater stock Coho was 0.11%.
Total monthly mortality was 550 as collected by staff

GROWTH:

Fish per pound (fpp) decreased from an average of 21.86 fpp to 20.50 fpp.
Length increased from an average of 5.08 inches to 5.18 inches.

FEED:

A total of 2,442 pounds of Bio-Clark's Fry 2.0 mm fand 2.5 MedicatedBio Aquaflor feed was fed during the month. The total cost of feed for the month was \$3,907.89.

FISH HEALTH:

Monthly fish health samples were collected by Corrie Samson. See fish health report. Fish are on 2.5mm MedicatedBio Aquaflor to combat symptoms of Cold Water Disease.

REPORTS:

- Mike Bisbee submitted final the CRITFC Progress Reports for FY 10, FY 11, and FY 12



Students observe spawning during a Hatchery tour.

Credit: Angela Feldmann/USFWS

"The Hatchery in the Classroom curriculum will be taught to 30 classes this year!"



Volunteer Jim King, rinses steelhead eggs.

Credit: Angela Feldmann/USFWS

MEETINGS/TRAINING:

- o Tui Moliga attended the Adult Technical Team meeting in Lapwai

BROOD YEAR 13:

- o There are 410,607 BY13 live Coho eggs on hand in 5 stack in A-Bank. Eggs are being picked by hand by Coho staff.

	Initial Live	Dead	Mort %	Live Eggs
Stack 1	90,347	2,372	2.63	87,975
Stack 2	90,473	3,093	3.42	87,380
Stack 3	90,701	2,422	2.67	88,279
Stack 4	90,911	3,513	3.86	87,398
Stack 5	61,724	2,149	3.48	59,575
TOTAL	424,156	13,549	16.06	410,607

Temperature Units as of 4/1/14

Take 1= 787.2; Take 2= 766.7; Take 3= 769.3; Take 6= 811.6

Information and Education Corner**Dworshak**

Stats: Tours-15, 681 people; Register- 450 visitors from 10 states; Volunteers- 13 logging 198.5 hours; Website visitors- 555; Blog Visitors- 2195 from 10 countries; Facebook Monthly Reach- 5447!

On Site:

- Posted 2 articles to the Dworshak Fisheries Complex Blog. Please visit the site: [The Fish Ladder: Notes from Dworshak Fisheries Complex](#); your contributions and comments are always welcome!
- Do you have a Facebook account? Have you “Liked” the Dworshak Fisheries Complex Facebook page yet? Our page is getting a lot of views, shares, and has almost 300 likes. We are making daily posts about activities, nature sightings, and general goings-on at Dworshak and the Clearwater River area. If you haven’t yet, take a minute to look at the page: [Dworshak Fisheries Complex](#), and like us!
- We delivered eggs and did tanks set ups for our Hatchery in the Classroom schools. This year the Lewiston program will have 22 classroom. Dworshak will be mentoring an additional 8 schools.
- Event planning for Dworshak’s Environmental Achievement Award celebration
- Updated and remodeled spawning balcony and displays
- Coordinated volunteers for spawning and hatchery tours
- Organized and scheduled hatchery tours
- Updated the Dworshak Fisheries Complex Q & A brochure.
- Updated Dworshak web page.

Off-site:

Attended a Salmon in the Classroom mentor’s meeting, Lewiston, ID

Attended 7 classroom visits for the HIC program

Participated in two Kids’ Fishing Day planning meetings

Kooskia

There 195 were visitors to the hatchery during this month. This figure is compiled by staff. There were not many visitors due to the cold weather.



New carpet and paint brighten up the spawn balcony.

Credit: Angela Feldmann/USFWS

“The spawning balcony is getting a facelift.”



Working on System 1 pump

Credit: Adam Izbicki/USFWS

Maintenance Activities

Dworshak

February/March maintenance activities included:

Repair chop saw in wood shop

Replace small crowder cables

Repair Cushman carts

Fab and install guards on small crowder

Repair boom truck brakes and lights

Annual maintenance on boom truck and fish truck

Replace windows in residence #4

Install block heater in boom truck

Repair warehouse west roll up door

Order repair parts for Komatsu forklift load rack

Quarterly maintenance on rotating screens

Working on Mech II boiler annual maintenance

Replace N side alarm float aeration chamber

Completed installation of transformer on B bank

Completed installation of new compressor wiring in Mech II

Installed new outlets at flagpole pond area

Replace secretaries fluorescent light fixture

Installed 40 amp circuits for new generator heaters

Installed new generator heaters on CAT generators

Residence #4 repaired phone jacks

Lab building replace failed lighted exit sign

Repaired mens restroom hand dryer

Removed conference room TV and wall mount

Installed ne receptacles in fish health lab

Replaced large manhole cover between system I and III

Replaced load backrest on Komatsu forklift

Painted office doors

Repair Chevy blazer coolant leak

Replaced feed building towel dispenser

Removed old eyewash station by production office

Cleared spawn basement sump pump intake of debris

Replaced front tires on 1 ton Dodge

Repair pvc lines and valves in nursery building

Worked on system I pump installed sole plate and leveled pump

Cleaned up system I pump house

Replaced run capacitor on boiler #1 HVAC unit

Replaced hot water heater in main building

Install fire hose storage box at housing area

Pond scrubber annual service

Bridge crane annual inspection

Mech II hot water circulation pump PMs

Heathro fish pump PMs

AED monthly checks

Fire extinguisher annual service – Oxarc

Serviced used oil heater in maintenance shop

Pressure washer annual service performed

Fire and Maint pumps monthly PM

Water fountain filter replaced

Monthly generator test runs

Installed VFD on 15 HP incubation pumps

Installed carpet on balcony

Painted balcony area

Refurbished electrical on balcony area

Idaho Fish Health Center

Bacteriology: Laura received samples from 11 cases totaling over 268 fish. Nine samples were processed for identification leading to several environmental bacteria and *Pseudomonas fluorescense*.

Virology: Corie, Jill and Chelsea ran a total of 160 samples representing 377 fish from Dworshak NFH, Nez Perce Tribe Kelt program, Nez Perce Tribal Hatchery, Nez Perce Tribe FCAP and the Wild Fish Health Survey. Corie, Jill and Chelsea ran 297 blind passes representing 585 fish from Dworshak NFH, Nez Perce Tribal Hatchery, Nez Perce Tribe Kelt program, Nez Perce Tribe Coho program, Hagerman NFH and the Wild Fish Health Survey.

PCR: Laura extracted and processed Hagerman NFH monthly samples for the parasite *Nucleospora salmonis*. In addition, Rick helped Laura with CWD confirmations from the end of Feb. Laura and Chelsea extracted 15 samples for *R.salmoninarum* (BKD) confirmations submitted by Bozeman FHC. Rick reran the PCR for White Sturgeon Iridovirus (WSIV) from the Washington Dept. of Fish and Wildlife submission from Sherman Creek to try to confirm suspect positives from the first PCR and to test WSIV controls. Rick also confirmed by reverse transcriptase real time PCR nine IHNv cell culture positive samples submitted by Corie. Rick continued to screen samples collected from passive integrated tagged adult steelhead trout collected during spawning takes for IHNv to compare with cell culture results for the IHNv study.

Parasitology: Five pre-release and one adult steelhead trout inspections for *Myxobolus cerebralis* were completed in March by Rick. Chelsea screened samples from adult reconditioned kelts and regular steelhead trout collected during spawning for *Ceratomyxa shasta*.

Histology: Guppy finished processing and reading slides from WDFW Sherman Creek white sturgeon fin samples in testing for the White Sturgeon Iridovirus.

FWS Hatcheries

Kooskia: Guppy visited Kooskia on 3/21 for routine monitoring exam. SCS fry appear healthy at this time.

Hagerman: Treatment for *Ichthyophthirius multifiliis* began March 5th for steelhead in the third deck of raceways. Doug Munson from IDFG visited the hatchery on March 13 to show David Burbank *Ichthyophthirius multifiliis*. He was unable to find any on the three fish he examined. He did note that the flashing had greatly decreased. Corie spoke with Hagerman regarding decreasing formalin treatments to twice weekly. Corie visited Hagerman a week later on March 20. Only one fish was observed flashing in the entire bottom deck. Microscopic examination showed light Ich was still present. It was recommended to continue the twice weekly treatments and watch for increased flashing.

Dworshak: Laura, Jill, and Chelsea (and volunteer Irene) performed pre-release on system I and II steelhead. A couple of precocious males were observed in System II. Rick and Chelsea performed pre-release inspection on density trial spring Chinook salmon in the B bank raceways. Corie, Rick, Jill and Chelsea collected fish health samples for routine inspection of spawning adult steelhead trout and for the IHNv study during March.

Guppy submitted the fish health section for the Dworshak Complex Annual Report.

Wild Fish Survey

6 Bull trout samples were collected by AVISTA from gill net operations in Lake Pend Oreille. Heads for Whirling Disease, kidney/spleen for virus, and kidney for *R.salmoninarum* by FAT were submitted. Laura updated and submitted all WFS data to Norm Heil for upload to public database pending funding to ECOS for uploads.

Other:

All available staff attended national fish health center conference call hosted by Joel Bader, National Aquatic Animal Health Coordinator on 3/3. All staff also participated in regional fish health center call hosted by Andy Goodwin on 3/3.

Guppy attended the LSRC Production meeting on 3/4-3/6 and participated on fish health round table discussions covering many topics



Adult Lamprey

Credit: IDFRO/USFWS

“As we move into the tail end of the steelhead run, our catch rates are declining”

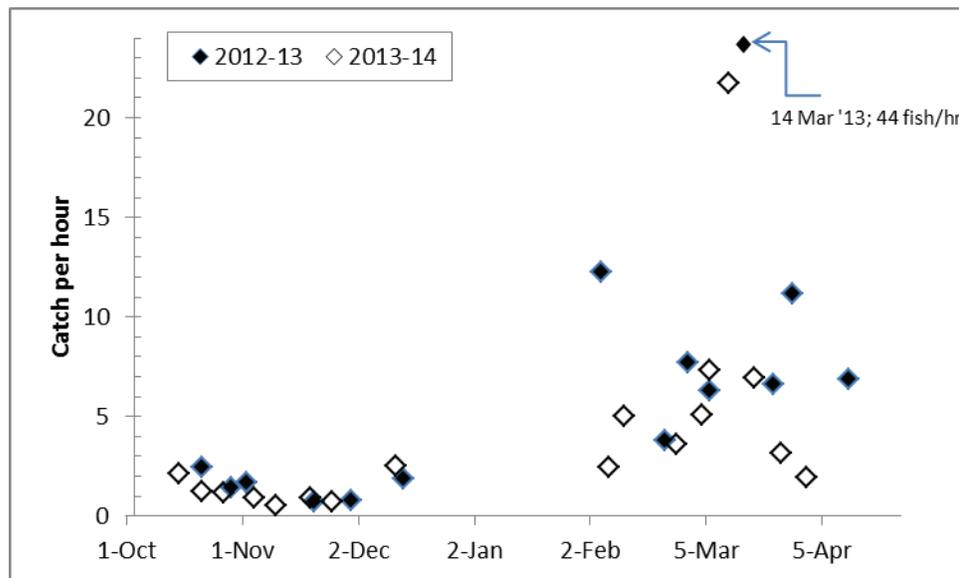


Ray Jones and Carrie Bretz collecting tag data.

Credit: Angela Feldmann/USFWS

Idaho Fisheries Resource Office

We spawned steelhead Takes 7, 8 and 9 in March. So far we have collected about 4,700 steelhead at the Dworshak trap. As we move into the tail end of the steelhead run, our catch rates are declining, to 2 to 3 fish per hour, half or a quarter of last year at this stage. Many of the fish we are collecting are recaptured one-ocean males that are being recycled back to the river. We are working to fill two temporary positions to assist the M&E and fall Chinook salmon research programs. Brad Buechel accepted the M&E position and will start early April.



Carrie Bretz has been working on broodyear 2014 steelhead collection, fish health sampling and database maintenance. She installed and began operating the screw trap in Clear Creek and is obtaining permits for the installation of the new PIT tag array for Clear Creek. Carrie measured retention of coded wire tags in the BY 2013 Chinook prior to their release in April.

Ray Jones has been assisting with steelhead spawning and the end-of-month sampling of the Chinook salmon for the density study. He attended the Lower Snake River Compensation Plan annual meeting in Boise and the HEZT meeting to coordinate our response to the HRT recommendations for Dworshak NFH. He worked with Hook to finalize broodstock composition for BY2013 Chinook salmon for the annual report. He is working with Chris to develop the 2015 scope of work for the Chinook salmon M&E program.

Chris Peery has been working with Bretz to process steelhead collected in our trap. He travelled to Boise to the Lower Snake River Compensation Plan annual meeting where he presented the evaluation plan for the new water reuse system being built at Hagerman NFH. Chris and Ray organized an HET meeting to coordinate our response to the Hatchery Evaluation Team's recommendations for the steelhead and Chinook programs at Dworshak NFH. He also met with Nez Perce Tribe biologists to coordinate juvenile lamprey sampling and he attended the Clearwater AOP wrapup meeting in Lewiston. He met with Jay Hesse to develop the Dworshak NFH M&E plans. Chris moved office from the FRO building to the main building hatchery.

During the month of March, Billy and the staff of the fall Chinook salmon research projects were involved in the following activities.

- (1) Two cooperative spawning survey reports were completed.
- (2) Smallmouth bass stomach contents were analyzed.
- (3) The laboratory component of a study on the effect of PIT-tag size on survival, growth, and tag retention was completed in Cook, Washington.
- (4) A bioaide (Chris Cavellieri) was selected and hired for the beach seining crew.

(Continued from page 8)

- (5) Work continued on a method for estimating juvenile passage abundance at Lower Granite Dam.
- (6) Nine biological opinion reports were written to BPA describing how the project informed recovery efforts in 2013.
- (7) Field gear was prepared and seining season began the last week in March thanks to assistance of Rob Bohn from the Hatchery Staff and John Hook from the Hatchery RM&E staff. Thank you very much for the help!

Jodi Bronstrom from the Salmon, ID office:
February

1. Attended IFRO-NPT Research Coordination meeting via Webex. I presented the IFRO Habitat Program and was brought up to speed on the NPT Watershed Restoration program.
2. Attended Idaho AFS meeting in Idaho Falls February 11-13. There were several sessions on habitat restoration and fish passage, and I moderated a native fishes session.
3. I met Jana Grote and Mike Faler in Boise February 26 to discuss the IFRO Habitat Program and change in structure and area responsibilities with Mike taking on the North Idaho area. Topics discussed included budgets, HUC4 species of concern, issues and opportunities, and developing a strategic plan for the IFRO Habitat Program.

March

1. Attended a Revegetation Workshop in Salmon, sponsored by the Upper Salmon Basin Watershed Program. There were several good speakers with a breadth of experience, from habitat restoration in Alaska watersheds to those in the Palouse and in SE Idaho. Stream-bank stabilization techniques were also covered. It was stressed that locally adapted nursery stock has the best success.
2. Met with two landowners for Partners for Fish and Wildlife projects, both involving riparian fencing. One fence is to exclude elk from an eroding streambank on the Salmon River. Elk are severely browsing willows and other vegetation to the point where the bank is eroding. The jack fence will preclude them from accessing the area from higher ground. The other fence is in a wet riparian area on a tributary to the upper Pahsimeroi River. The fence is in disrepair and the neighbor's cattle are able to get in and graze the area during sensitive seasons. A wildlife friendly fence will be constructed.
3. I worked on the IFRO Habitat Matrix and gave input into the budget.
4. I continued work on the Snake River Pacific Lamprey Regional Implementation Plan.

Manager's Message

(Continued from page 1)

Kent, I'd like to thank you for a job well done. We're all appreciative for your efforts on behalf of SRBA and the Complex, and we're glad you'll still be in the mix through your roles as Manager at Kooskia Hatchery and Training Coordinator for DFRM Production.

Additionally, thanks should also go to Kent's wife Glenda and family, who certainly must have felt the impact of all those hours Kent wasn't home. And finally, great job to the staff at Kooskia Hatchery, for keeping things in good order there while Kent was fulfilling other duties...we truly appreciate it.

Dedication is not always easy to find, but it is clear to me we have a lot of it within the Dworshak Complex.



Sorting Steelhead

Credit: Angela Feldmann/USFWS



Steelhead broodstock

Credit: Angela Feldmann/USFWS



A cold morning at Dworshak.

Credit: Angela Feldmann/USFWS

Meetings....Training....Travel

Dworshak

Mar 01: Jerry McGehee, Clearwater Fish Hatchery Complex Manager (IDFG), Steve Rodgers and Mark Drobish met with Congressman Raul Labrador and Scott Carlton, Regional Director-Agriculture and Natural Resource Policy Issues (Lewiston-Labrador) and Mike Hanna, Regional Director (Lewiston for Senator Risch) provided information relative to facility rehab, production levels as they relate to production goals, challenges, recent recognition of achievements and national award recipient.

Mar 05: the safety committee met for the monthly safety meeting at the Dworshak Complex.

Mar 11: Angela Feldmann and Steve Rodgers met with Sean Connolly, Amanda Fortin, Cheri Benson, and John Tyler for an Open House event planning meeting.

Mar 17: Mark Drobish participated in the Kelt Management Team conference call.

Mar 28: CH2MHill hosted the initial Hydro-Bypass Conference Call. CH2MHill is conducting an analysis on the reservoir water pipeline to determine the feasibility of increasing water flow through to and through the hydro-plant. This information is critical to Dworshak Hatchery Rehab and greater utilization of reservoir water to enable the hatchery to manage around IHNV for steelhead production. The increased water volume would provide the water volume needed to convert the System I and II burrows ponds into circular tanks with up to 70% reuse using modern rearing technology.

Kooskia

Mar 05: Kent taught a refresher pathology class at DW.

Mar 08: Kent went to Lostine acclimation site and Looking Glass Hatchery.

Mar 25: Kent & Gerry attended a contractors meeting at Kooskia concerning the paving contract, set to begin early April.

Administrative Activities

Safety

Two "Non-recordable" OSHA incidents (Bruised Ribs)

2014 Self Safety Audit Completed

Personnel Actions

2/11: Bugler, Extension of Appointment (1yr)

2/10: Hook, Ext. of Appointment (1 yr)

Muchard: 2/3 Transfer to Mid Columbia River FRO effective 2/23

2/20: HR announced/authorized the selection of Jason Sperber for one of the two vacant Animal Care-taker positions. Start date is 3/9.

Staff Service Anniversaries and Birthdays

<i>Birthdays</i>	Christopher Cavalieri	<i>Years of Service</i>	Chris Peery, 5 years
Joe Livesay	Jody Brostrom	Steve Bradbury, 15 years	Rob Bohn, 6 years
Steve Bradbury	Chris Peery	Billy Connor, 23 years	Mike Faler, 31 years
Ray Jones	John Hook		

(Continued from page 6)

Kooskia

Maintenance & Operations:

Kent and Gerry responded to an alarm at 8:00 pm, silt and debris had gathered on the screens at the intake and impeded flow to the hatchery, after cleaning the screens, flow was restored and the alarms reset.

Coho smolts arrived and were put in raceways 1,2,3 & 4.

The remainder of DW Coho smolts arrived and were put into raceways 5,6,7 & 8, Kooskia hatchery received a total of 328,000 Coho from DW.

Three trucks arrived delivering Eagle Creek Coho to Kooskia hatchery one truckload was released into Clear Creek at the Toll Rd bridge, the other two loads were put into raceways 9,10,11 & 12.

At 5:50 a.m. we had an alarm at the hatchery, due to heavy rainfall during the night, silt and debris had built up on the screens at the intake impeding water to the hatchery, Kent and Gerry cleaned the screens and restored water flow.

Gerry and Kent responded to an alarm at the intake, both the grill and the screens had to be cleared of debris.

Staff moved takes one and two of brood year 2013 from the incubation trays to the outside rearing tanks.

Staff moved take three of brood year 2013 from the incubation trays to the outside rearing tanks.

Staff moved take four of brood year 2013 from the incubation trays to the outside rearing tanks.

Released Brood Year 12 SCS, 628,007 fish at 32 fish per pound into Clear Creek.

The Burrows ponds were cleaned in preparation for the arrival of Chinook from Clearwater hatchery to acclimate to Clear Creek.

Chinook from Clearwater Hatchery began arriving, 131,000 fish were put into burrows pond one and another 131,000 were put into burrows pond two. After observing the density and oxygen content it was determined there were too many fish in those ponds and 30,000 were taken out of ponds one and two and put into pond four.

The last of the fish in the incubation trays (Coho) were transferred to the inside rearing tanks 18 thru 24, each tank has approximately 12,000 fish.

The remainder of Chinook from Clearwater hatchery arrived, originally it was planned to put 800,000 into the burrows ponds, but after the density issues we ended with 672,860 fish in the burrows ponds, the remainder of the 800,000 were release directly into Clear Creek at the Toll Road bridge.

After putting fish in pond #5 the fish were acting strangely, it was determined there insufficient flows resulting in a low oxygen content, the flows were increased, however there was delayed mortality of 2600 fish. These fish were scanned for tags and all concerned parties were notified.

At 6:40 am, we got a low creek alarm; it was determined that due to high murky water in Clear Creek, the screen at the screen chamber had become clogged with silt, it was cleared by Kent and Gerry and was monitored the rest of the day.

Released 669,345 Clearwater Hatchery smolts into Clear Creek.

Gerry Fogelman

Staff List

Complex Management

Steve Rodgers, Complex Manager
Mark Drobish, Hatchery Manager
Mike Tuell, Nez Perce Tribe Co-Manager
Nate Wiese, Assistant Hatchery Manager
Jack Christiansen, Aquatic Engineer

Dworshak Production Staff

Angela Feldmann, Jill Olson, Rob Bohn,
Wayne Hamilton, Tom Tighe, Jesse
Jeppesen, Jason Sperber

Nez Perce Tribe Production Program

Mike Bisbee, Tuianna Moliga, Lou Ann
Lasswell, Steve Coomer, Jeremy Sommer,
Carter Lopez, Ira Wilson, Mike Murphy,
Casey Mitchel

Administration

Penny Hasenoehrl, Steve Bradbury

Maintenance

Adam Izbicki, Terry Weeks, Rick King,
Rob Kellar, James Oatman, Scott Koehler,
Jimmy Oatman, James Paddelty, Melissa
Billups, Joe Livesay

Idaho Fish Health Center

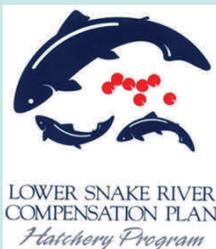
Dr. Marilyn Blair, Laura Sprague, Corie
Samson, Rick Cordes

Idaho Fishery Resource Office

Mike Faler, Dr. William Conner, Ray
Jones, Aaron Garcia, Carrie Bretz, Frank
Mullins, Dr. Chris Peery, Jody Brostrom,
Randy Bowen, Ken Bugler, John Hook,
Christopher Cavalieri

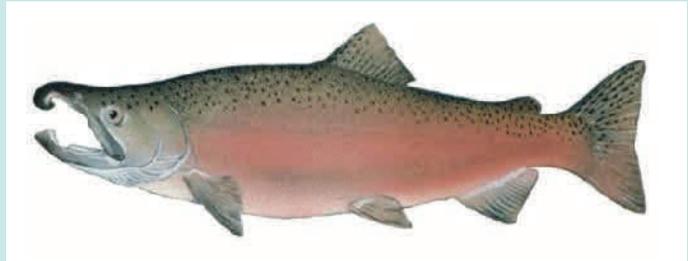
Kooskia National Fish Hatchery

Kent Hills, Art Broncheau, Kenny Simpson,



Dworshak Complex staff.

Credit: Mark Drobish/USFWS



Parting Shot



Dworshak Fisheries Complex employees accept the FWS Hatchery of the year award from Regional Director, Mike Carrier

Credit: Nate Wiese/USFWS