

**La Grande Fish Health Services Laboratory
January 2009 Activity Report**

I. Captive Broodstock Fish Health Examinations

- A. Wallowa Hatchery** - There were no mortalities in January.
- B. Manchester** – There were no reported problems in January. All BKD ELISA results from mortalities since June had values ≤ 0.065 OD units.
- C. Bonneville** – There were no reported problems in January.

II. LSRCP Fish Health Examinations

A. Lookingglass Hatchery

BY2007 ChS – See summary below for January. No virus or BKD has been detected in juveniles thus far with this brood year. BKD ELISA results are pending for January. There was ~93% reduction in total bacterial counts in post UV treated Lookingglass Creek water in December with a flow setting of ~270 GPM (dose ~280,000 mw).

BKD ELISA summary in mortality for August - December in BY2007 spring Chinook juveniles on hand at Lookingglass Hatchery and cumulative % mortality from final ponding to the end of January 2009				
Stock	Raceway	BKD Segregation	Cumulative % Mortality	Proportion (%) ELISA OD ≥ 1.000
Catherine Creek Conventional (201W07)	R1	Low	0.30	0/13 (0)
Catherine Creek Conventional (201W07)	R2	Low	0.38	0/10 (0)
Catherine Creek Conventional (201W07)	R3	Low	0.68	0/19 (0)
Catherine Creek Captive F ₁ (201F07)	R4	Low	0.69	0/24 (0)
Catherine Creek Captive F ₁ (201F07)	R5	Moderate	0.84	0/11 (0)
Lookingglass Creek (81.07)	R6	Low	0.98	0/25 (0)
Grande Ronde Conventional (80W07)	R7	Low	0.56	0/24 (0)
Grande Ronde Captive F ₁ (80F07)	R8	Low & Moderate	0.84	0/24 (0)
Grande Ronde Conventional (80W07)	R9	Low	0.53	0/17 (0)
Lostine River Conventional (200W07)	R10	Low	0.60	0/12 (0)
Lostine River Conventional (200W07)	R11	Low	0.53	0/12 (0)
Lostine River Conventional (200W07)	R12	Low	1.05	0/17 (0)
Lostine River Captive F ₁ (200F07)	R13	Low	0.71	0/23 (0)
Imnaha River Conventional (2907)	R14	Low	0.45	0/11 (0)
Imnaha River Conventional (2907)	R15	Low	0.43	0/13 (0)
Imnaha River Conventional (2907)	R16	Low	0.45	0/7 (0)
Imnaha River Conventional (2907)	R17	Low	0.42	0/13 (0)
Imnaha River Conventional (2907)	R18	Low	0.53	0/3 (0)

January Fish Health summary for BY2007 spring Chinook juveniles on hand at Lookingglass Hatchery.

Stock #	Stock Name	Culture Results	Comments
201W07	Catherine Creek Conventional	1/10 (10%) yeast	The fish with yeast had a distended abdomen and fluid in the stomach
201F07	Catherine Creek Captive Brood progeny	2/10 (20%) had a low level of aeromonad-pseudomonad (APS) bacteria and 1/10 had moderate levels of <i>P. fluorescens</i>	
80W07	Grande Ronde River Conventional	6/10 (60%) had a low – moderate levels of APS bacteria	1/10 mortalities had tail erosion
80F07	Grande Ronde River Captive Brood progeny	1/7 (14.3%) had a low level of APS bacteria and 1/7 (14.3%) had internal fungus	1/7 mortalities had a kidney adhesion and five had exophthalmia
8107	Lookingglass Creek	1/10 (10%) internal fungus	1/10 mortalities had a kidney adhesion
200W07	Lostine River Conventional	1/10 (10%) had a moderate level of APS bacteria	
200F07	Lostine River Captive Brood progeny	1/10 (10%) had a low level of APS bacteria	
2907	Imnaha River	No significant levels of systemic bacteria detected	1/10 had fungus on the gills

B. Irrigon Hatchery

Monthly Monitoring, Wallowa 5608 StS – Seven of 10 (70%) mort/moribund fish had heavy levels of APS bacteria. No parasites were detected on skin scrapings.

Monthly Monitoring, Imnaha 2908 StS – Four of 10 (40%) mort/moribund fish had APS bacteria. Two of five (40%) moribund fish had low levels of *Ichthyobodo* (*Costia*) on the gills (unusual for Irrigon Hatchery).

III. Umatilla Hatchery Fish Health Monitoring and Evaluation Examinations

A. Umatilla Hatchery

Monthly Monitoring, Umatilla River 9108 StS – Three of 15 (20%) mort/moribund fish had low levels of mixed bacterial growth.

B. Three Mile Dam Adult Facility

Adult Spawner Examinations, Umatilla River 9100 ChF – An unusual virus isolation was made from one pyloric caeca/kidney/spleen tissue sample pool from last falls spawning. After further diagnostic work this sample is presumptively being called a paramyxovirus. Further laboratory work is planned.

IV. ODFW Fish Health Examinations

A. Irrigon Hatchery

Monthly Monitoring/Increased Loss, 72T07 Rb – There was some variable loss particularly in one pond (pond 1) of these triploid rainbow. Five of 10 (50%) mort/moribund fish had various levels of *Flavobacterium psychrophilum* (cold water disease bacteria) including three at moderate to heavy levels. In addition an unusual parasite detection was made. Two of five (40%) moribund fish had low levels of *Costia* – this is a rare find at this well water facility. Raceway flushing was recommended and losses were trending lower at the writing of this report.

B. Wallowa Hatchery

Monthly Monitoring, 72T07 Rb – One of 10 (10%) mort/moribund fish had a low level of CWD bacteria. Four moribund fish examined for external parasites were negative.

Monthly Monitoring, (circular pond) 7207 Rb – No pathogens detected.

C. Miscellaneous Mortalities – The table below summarizes the mortalities submitted in January.

Number of fish (mortalities) submitted for examination in January 2009

Location	Species ^a	Number	Comment
Lookingglass Hatchery	Bullheads	4	Found in various raceways (2,8,16 & 18)
Lookingglass Hatchery	Rainbow	1	From raceway #9
Walla Walla Community College	Spring Chinook ^b	8	Umatilla Hatchery program sac fry for display tank. No specific pathogens found

^aunless noted these were wild juvenile fish.

^bUmatilla River spring Chinook (91.08) from Umatilla Hatchery.

V. Communications

A. Onjukka attended the LSRCP AOP meeting in La Grande on January 20th

B. Onjukka attended the Captive Broodstock TOT and AOP meeting on January 28th.

C. The Captive Broodstock 2009 AOP document was reviewed and edits submitted.

D. Some time was spent working on completing the 2008 Umatilla Hatchery program BPA annual report.

E. Veterinary prescription requests for 2009 and annual INAD sign up's for 2009 were prepared and submitted.

F. The Pacific Northwest Fish Health Protection Committee fish health report for July-December 2008 was prepared and submitted to Tony Amandi.

G. Laboratory staff worked on updating the ODFW Fish Health Services database with information on examinations conducted in 2008. Updated files were sent to the Corvallis Fish Health Services Laboratory.