

Oregon Department of Fish and Wildlife

Lookingglass Hatchery Monthly Progress Report

Reporting Month: April 2010
Author(s): Roger Elmore

Fish Culture:

April weather continued to be relatively mild. BY 09 fry are growing as expected with month end sample counts reflecting an increase in fish size. EWOS brand feed is being fed to the BY 09 cohort and the feeding response has been very good.

Screens were put into place at the hatchery intake to try and keep out spring runoff debris.

The second and last group of BY 08 Lostine stock smolts were shipped to the Nez Perce Lostine River acclimation site on April 1st. Lookingglass Creek BY 08 acclimation ended with force-out on April 14th. Hatchery staff assigned to the Imnaha Satellite facility removed screens on April 1st beginning volitional release of BY 08 Imnaha stock smolts which ended with force-out on April 14th. Following is the number of BY 08 fish shipped to acclimation for the Lostine, Catherine Creek, and Grande Ronde stocks or released into Lookingglass Creek and the Imnaha River:

- Lostine-244,554*
- Catherine Creek-144,660
- Grande Ronde-232,545
- Lookingglass-262,911
- Imnaha-390,044

*Lostine number does not include 66,820 pre-smolts released in June, 2009.

Total number for all stocks is 1,274,714, not including the Lostine pre-smolt release.

Newly manufactured injectable Erythromycin arrived for use on returning adults in 2010. Expired erythromycin was returned to Fish Health Services for disposal.

From April 26-29th, 96,957 BY 09 Lookingglass stock and 92,755 Catherine Creek stock Captive Brood fry were transported to Irrigon FH for rearing until September when they are scheduled to be returned to Lookingglass for final rearing until release in spring 2011. Bio-Oregon medicated feed and EWOS feed was ordered and direct shipped to Irrigon for the Lookingglass and Catherine Creek fry.

EWOS feed for Lookingglass Hatchery was delivered on April 20th. The hatchery staff entered steelhead trap data into the Hatchery Data Management System.

Maintenance:

Pressure washing, disinfection, maintenance, and setting up raceways in preparation for the BY 09 fry to be moved to the outside raceways is ongoing with help from the Union County Sheriff and people performing community service work.

Brandon Daniels, Communications system Analyst 2 from the Forestry Department installed a new radio antenna for Lookingglass FH's base station, updated the frequencies, and installed a radio in the Ford pickup.

The hatchery snowmobiles were stored for summer. Tire chains were removed from the backhoe and snow removal equipment. The tire chains were checked for condition, repaired as needed, and stored for the season.

Ron Sasser from Eastern Oregon Petroleum performed an inspection on the hatchery fuel storage tanks. Ron made repairs to a broken automatic shut off valve and replaced sight gauges.

Aluminum panels designed to keep fish from jumping over the raceway head screens have been constructed for use in 2010.

Work continues on moving two air compressors out of the spawn room and one air compressor out of the old wood shop. The old wood shop compressor will be moved to the feed room to use for operating spawn room controls and as a back-up system for the automatic air-actuated raceway feeders.

Bill Barnes spent several days at the Imnaha Facility performing repairs to the cabin water supply lines to the shower and repairing the trap tower lift door.

Bill excavated the hatchery main line blow off valve which had broken as the valve could no longer be opened. Replacement parts were machined by Eagle Carriage and Machine and the valve seems to be working normally.

NPDES Waste Discharge Permit Monitoring

Domestic DEQ water samples were not collected in April. There were no non-compliance issues.

Miscellaneous:

Jake McLean from Imbler High School spent a day working with the crew as part of his senior class project.

Ross Duncan, 6th grader from La Grande Middle School, spent a day at the hatchery as a job shadow student.

Grande Ronde Retirement Center brought several of their residents to visit the hatchery on April 22nd.

OTEC restored downed power lines after a tree came down over the lines during a wind storm at 3:00 a.m. on April 27th. This caused a power outage for several hours. Back up generators provided power during the outage.

The adult holding pond wall construction planned for this year has been delayed until spring of 2011. The walls will divide the two adult holding ponds into four ponds.

Personnel:

Interviews for the Fish & Wildlife Hatchery Technician position have been scheduled for May 11th and 12th.

Safety:

The monthly safety meeting was held April 20th. Discussion centered on LGH's Flood Disaster Plan, Pollution Prevention Plan, and Emergency Response Plan reviewing implementation procedures.

Fish Production and Distribution:

Fish in Canadian Troughs

CT #	Species	Stock	Number of Fish	lbs of fish	F/lb	grams/Fish
1	CHS	IM 29-09	48,873	115.3	423.81	1.1
2	CHS	IM 29-09	49,147	270.0	182	2.5
3	CHS	IM 29-09	48,846	263.4	185.42	2.4
4	CHS	IM 29-09	51,336	242.2	212	2.1
5	CHS	IM 29-09	51,211	233.9	218.97	2.1
6	CHS	IM 29-09	50,825	198.3	256.25	1.8
7	CHS	IM 29-09	49,345	174.2	283.33	1.6
8	CHS	IM 29-09	49,815	133.2	374.07	1.2
9	CHS	IM 29-09	51,500	137.1	375.76	1.2
*10	CHS	LG 81-09	48,398	163.55	295.92	1.5
*11	CHS	LG 81-09	48,530	125.73	386.36	1.2
12	CHS	CQ 201-09	48,231	228.9	210.71	2.2
13	CHS	CQ 201-09	52,318	217.6	240.38	1.9
14	CHS	CQ 201-09	51,385	218.7	234.92	1.9
15	CHS	GQ 80-09	37,859	295.0	128.33	3.5
16	CHS	GQ 80-09	37,978	297.4	127.69	3.6
17	CHS	GQ 80-09	39,664	279.1	142.11	3.2
18	CHS	GQ 80-09	39,707	239.3	165.91	2.7
19	CHS	GQ 80-09	37,089	194.1	191.07	2.4
20	CHS	LQ 200-09	42,912	222.8	192.59	2.4
21	CHS	LQ 200-09	45,867	211.2	217.19	2.1
22	CHS	LQ 200-09	43,126	185.4	232.56	2.0
23	CHS	LQ 200-09	43,982	166.0	264.91	1.7
*24	CHS	CQ 201-F-09	45,729	181.25	252.3	1.8
*25	CHS	CQ 201-F-09	47,026	147.69	318.42	1.4
26	CHS	GQ 80-F-09	27,346	133.8	204.35	2.2
27	CHS	LQ 200-F-09	35,822	107.6	333	1.4
28	CHS	LQ 200-F-09	32,290	74.4	434	1.0
29	CHS	LQ 200-F-09	32,291	74.2	435	1.0
30	CHS	GQ 80-F-09	27,699	159.7	173.44	2.6

* = Transferred to Irrigon Hatchery

Stock	# of Fish	Production Goal	% of Goal	Meeting Goal
CQ 201-09	151,934	130,000		YES

			116.9	
CQ 201-F-09	-	-	-	
LG 81-09	-	250,000	-	NO
GQ 80-09	192,297	250,000	98.9	NO
GQ 80-F-09	55,045			
LQ 200-09	175,887	187,500	93.8	NO
LQ 200-F-09	128,102	62,500	205.0	YES
IM 29-09	450,898	360,000	125.2	YES

Fish Health

Fish pathology performed monthly sampling on April 19th. The April Fish Health report is pending. The March Fish Health report is below.

II. LSRCP Fish Health Examinations

A. Lookingglass Hatchery

Pre-transfer Examination, Catherine Creek Captive Broodstock progeny 201F08 – Two of 10 (20%) mortalities had low levels of *Flavobacterium psychrophilum* (CWD bacteria) and 3/10 (30%) had aeromonad-pseudomonad (APS) bacteria. Three of six grab-sampled fish had low-moderate levels of *Costia* and *Epistylis*. One of 10 mortalities had gross signs of BKD; ELISA results are pending. All samples collected for virus were negative.

Pre-transfer Examination, Catherine Creek Conventional 201W08 – Six of 10 (60%) had APS bacteria. Two of six grab-sampled fish had low levels of *Costia*, *Epistylis* and *Apiosoma*. One of 10 mortalities had gross signs of BKD; ELISA results are pending. One mort from raceway 2A was positive for infectious hematopoietic necrosis virus (IHNV) at a low titer level. All other samples collected for virus were negative. We sampled 60 for annual *Myxobolus cerebralis* testing.

Pre-liberation Examination, Lookingglass Creek 8108 ChS – Two of nine (22.2%) mort/moribund fish had very low levels of CWD bacteria and 3/9 (33.3%) had low-moderate levels of APS bacteria. Low levels of *Epistylis* were detected on grab-sampled fish and one moribund fish had a low level of *Costia* on the gills. One moribund fish had a kidney adhesion. All samples collected for virus were negative. BKD ELISA results are pending.

Fish Health summary for BY2009 spring Chinook juveniles examined in March at Lookingglass Hatchery

Stock #	Stock Name	Culture Results	Comments
200W09	Lostine River Conventional	No significant levels of systemic bacteria Virus results pending	-examined fish from CT-20 on 3/31/10 due to increased loss. Losses were reported to be much lower early in April
200F09	Lostine River Captive Brood progeny	9/10 APS	-fish from CT-29 were examined on 3/8/10 due to slightly higher loss. All 10 mortalities examined were pinheads. Losses subsided to lower levels later in the month.

The latest UV system test was conducted on 3/2/10. There was ~89.% reduction in total bacterial counts in post UV treated Lookingglass Creek water with a theoretical UV dose of ~95,000 mw and a flow of ~730 GPM. Additional tests will be conducted monthly till the system is shut down for BY2009 fish.

B. Imnaha Satellite Facility

Pre-liberation Examination, Imnaha 2908 ChS – One of 10 mort/moribund fish had a kidney adhesion and heavy levels of internal fungus. One of 10 had a low level of CWD bacteria and 2/10 had moderate to heavy levels of APS bacteria. Two of 10 mortalities had some gill fungus. Two of five grab-sampled fish had low levels of *Costia*, 5/5 had low-moderate levels of *Epistylis* and 2/5 had low levels of *Apiosoma*. Virus and BKD ELISA results are pending. Overall loss has been higher with this brood year; cumulative loss from final ponding at Lookingglass Hatchery to the end of February was 1.36% compared to $\leq 0.78\%$ for brood years 2004-2007.

Distribution:

Joe Krakker	Lower Snake, Boise
Chris Starr	Lower Snake, Boise
Scott Marshall	Lower Snake, Boise
Tammy Froscher	Lower Snake, Boise
Sam Onjukka	Pathology, LaGrande
Mary Hoverson	N. E. Region, LaGrande
Scott Patterson	N. E. Region, LaGrande
Kim Sines	N. E. Region, LaGrande
Tracy Wyllie	N. E. Region LaGrande
Bill Knox	N. E. Region, Enterprise
Joe Feldhaus	Research, La Grande
Rich Carmichael	Research, LaGrande
Pat Keniry	Research, LaGrande
Tim Hoffnagle	Research, LaGrande
Deb Eddy	Research, LaGrande
Steve Boe	C.T.U.I.R., LaGrande
Mike McLean	C.T.U.I.R., LaGrande
Carrie Crump	C.T.U.I.R., LaGrande
Laurie Hewitt	C.T.U.I.R., LaGrande
Gary James	C.T.U.I.R., Pendleton
Brian Zimmerman	C.T.U.I.R., Pendleton
Becky Johnson	Nez Perce, Enterprise
Jim Harbeck	Nez Perce, Enterprise
Rick Zollman	Nez Perce, Enterprise
Peter Cleary	Nez Perce, Enterprise
Rusty Eschler	Nez Perce, Enterprise
Mary Edwards	Nez Perce, Enterprise
Cameron Albee	Nez Perce, Enterprise
Mike Gribble	Irrigon Hatchery
Marla Chaney	Bonneville Hatchery
Guy Chilton	ODFW, Salem HQ
Muhammad Latif	ODFW, Salem HQ
Roger Elmore	Lookingglass Hatchery
Diane Deal	Lookingglass Hatchery