

Oregon Department of Fish and Wildlife

Lookingglass Hatchery Monthly Progress Report

Reporting Month: March 2008
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Date: April 3, 2008

Fish Culture:

- Picked mortality daily in Raceways (RW's and CT's)
- Crew cleaned and did Passive Integrated Transponder (P.I. T.) tag recovery in Raceways 1-18 prior to sending fish to acclimation sites.
- Fed fish in raceways and Canadian troughs according to monthly feed program
- Grande Ronde fry were transferred to Wallowa Hatchery for captive brood program.
- UV creek water with ambient well water is the water supply to the Canadian troughs.
- Collected data from Steelhead captured in the intake trap and transported upstream on Monday, Wednesday and Fridays.
- The Innaha Acclimation Facility was plowed out and readied for acclimation.
- Crowded fish in raceways to send to acclimation sites.
- Started breaking down and pressure washing empty raceways.
- Fish sent to Lostine, Catherine Creek and Grande Ronde acclimation facilities.

Fish Distributions:

Fish On Hand In Raceways:

DATE	SPECIES	STOCK	SIZE f/lb	grams/fish	NUMBER	LOCATION
3/10/08	CHS	CQ20106	21.03	21.59	58,509	CQ ACC
3/10/08	CHS	CQ20106	21.46	21.13	58,458	CQ ACC
3/31/08	CHS	CQ201F06	20.30	22.36	25,284	LGH (R-3)
3/31/08	CHS	CQ201F06	21.82	20.81	18,003	LGH (R-4)
3/11/08	CHS	GQ8006	20.92	21.70	63,650	GQ 1 st ACC
3/25/08	CHS	GQ8006	20.01	22.69	63,582	GQ 2 nd ACC
3/11/08	CHS	GQ8006	21.06	21.56	63,902	GQ 1 st ACC
3/26/08	CHS	GQ8006	21.62	21.00	68,919	GQ 2 nd ACC
3/31/08	CHS	LQ20006	18.90	24.02	65,655	LGH (R-9)
3/04/08	CHS	LQ200F06	21.70	20.92	10,498	LQ 1 st ACC
3/03/08	CHS	LQ20006	19.00	23.89	63,748	LQ 1 st ACC
3/31/08	CHS	LQ20006	21.20	21.42	65,414	LGH (R-12)
3/12/08	CHS	IM2906	21.39	21.22	59,660	IM ACC
3/12/08	CHS	IM2906	20.43	22.22	59,641	IM ACC
3/13/08	CHS	IM2906	19.03	23.86	59,667	IM ACC
3/13/08	CHS	IM2906	18.28	24.84	59,498	IM ACC
3/14/08	CHS	IM2906	20.85	21.77	59,314	IM ACC
3/14/08	CHS	IM2906	22.43	20.24	51,365	IM ACC

FRY IN CANADIAN TROUGHS – as of 4/01/08

Date	Titers	Stock	SIZE F/LB	SIZE grams/fish	Number	Production Goal	Percent of Goal	Meeting Goal	Location
3/31/2008	LOW	IM 29-07	437	1.04	52,204				CT #1
3/31/2008	LOW	IM 29-07	457	.99	48,606				CT #2
3/31/2008	LOW	IM 29-07	478	1.05	48,548				CT #3
3/31/2008	LOW	IM 29-07	502	.91	49,336				CT #4
3/31/2008	LOW	IM 29-07	423	1.07	49,587				CT #5
3/31/2008	LOW	IM 29-07	465	.98	49,516				CT #6
		AVG	459	.99 / Total	299,102	360,000	83.1 %	NO	
3/31/2008	LOW	GQ 80-07	439	1.04	34,030				CT #7
3/31/2008	LOW	GQ 80-07	468	.97	29,672				CT #8
3/31/2008	LOW	GQ 80-07	480	.95	33,262	+ GQ F			CT #9
		AVG	461	.99 / Total	97,433	250,000	63.1 %	NO	
3/31/2008	LOW	LG 81-07	520	.87	50,378				CT #10
				Total	50,378	250,000	20.2 %	NO	
3/31/2008	LOW	CQ 201-07	512	.89	35,728				CT #11
3/31/2008	LOW	CQ 201-07	487	.93	34,116				CT #12
3/31/2008	LOW	CQ 201-07	535	.85	38,629				CT #13
3/31/2008	LOW	CQ 201-07	428	1.06	34,655	+ CQ F			CT #14
		AVG	489	.93 / Total	144,777	130,000	191.8 %	YES	
							**		
3/31/2008	LOW	LQ 200-07	489	.93	37,962				CT #15
3/31/2008	LOW	LQ 200-07	519	.88	35,462				CT #16
3/31/2008	LOW	LQ 200-07	493	.92	38,430				CT #17
3/31/2008	LOW	LQ 200-07	494	.92	39,210				CT #18
3/31/2008	LOW	LQ 200-07	493	.92	39,368				CT #19
3/31/2008	LOW	LQ 200-07	524	.87	37,713				CT #20
		AVG	501	.91 / Total	228,145	187,500	121.7 %	YES	
3/31/2008	LOW	LQ 200-F-07	544	.84	33,870				CT #21
3/31/2008	LOW	LQ 200-F-07	567	.80	32,769				CT #22
3/31/2008	LOW	LQ 200-F-07	567	.80	29,332				CT #23
		AVG	559	.81 / Total	95,971	62,500	153.6 %	YES	
3/31/2008	LOW	GQ 80-F-07	498	.91	31,756				CT #24
3/31/2008	MOD	GQ 80-F-07	522	.87	28,567	+ GQ			CT #25
		AVG	509	.89 / Total	60,323	250,000	63.1 %	NO	
3/31/2008	MOD	CQ 201-F-07	559	.81	28,419				CT #26
3/31/2008	LOW	CQ 201-F-07	552	.82	38,206				CT #27
3/31/2008	LOW	CQ 201-F-07	554	.82	37,954	+CQ			CT #28
		AVG	555	.82 / Total	104,579	130,000	191.8 %	YES	
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** = Surplus will go to Lookingglass Cr

Stock	# of Fish	Production Goal	% of Goal	Meeting Goal
CQ 201-06	116,967	130,000	90.0	NO
CQ 201-F-06*	43,218			
LG 81-06	0	150,000	0.0 %	NO
GQ 80-06	260,053	250,000	100.0 %	YES
LQ 200-06	194,714	187,500	103.8 %	YES
LQ 200-F-06	10,498	62,500	16.8 %	NO
IM 29-06	349,145	360,000	97.0 %	NO

* = fish released into Lookingglass Creek

Fish Health

- Sam Onjukka was here on the 18th to do the monthly fish health examination. The following reports are for February and March.

II. LSRCP Fish Health Examinations

A. Lookingglass Hatchery

BY2006 ChS – We conducted a pre-liberation examination for the Lookingglass Creek release group, 201F06 fish. One of 10 (10%) mort/moribund fish had gross signs of BKD and an ELISA value of 2.283 OD units. All samples collected for virus testing from BY2006 fish throughout rearing, were negative. We found there

March 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%) aeromonad-pseudomonad (APS) bacteria	6/10 had coagulated yolk
201F07	Catherine Creek Captive Brood progeny	5/10 (50%) had low levels of mixed bacterial growth	4/10 had coagulated yolk
80W07	Grande Ronde River Conventional	3/10 (30%) low level internal fungus	3/10 had coagulated yolk
80F07	Grande Ronde River Captive Brood progeny	2/10 (20%) APS bacteria & 5/10 (50%) had low levels of mixed bacterial growth	4/10 had coagulated yolk
8107	Lookingglass Creek	2/10 (20%) APS bacteria & 4/10 (40%) had low levels of mixed bacterial growth	4/10 had coagulated yolk
200W07	Lostine River Conventional	2/10 (20%) had low levels of <i>Flavobacterium psychrophilum</i> (CWD bacteria)	6/10 had coagulated yolk
200F07	Lostine River Captive Brood progeny	7/10 (70%) had APS bacteria	3/10 had coagulated yolk
2907	Imnaha River	1/10 (10%) had a moderate level of CWD bacteria and 1/10 (10%) had APS bacteria	6/10 had coagulated yolk

III. LSRCP Fish Health Examinations

B. Lookingglass Hatchery

BY2006 ChS – We conducted pre-transfer examinations on all stocks except for Lookingglass Creek release group 201F06 fish. We continued to detect BKD in some of the February mortality from all four conventional production stocks. No virus has been detected in BY2006 juveniles to date. We found there was 92.6% reduction in total bacterial counts in post UV treated Lookingglass Creek water in February with a UV dose setting of ~98,000 mw and a flow setting of 680 GPM. Sixty heads were collected from Imnaha stock fish for annual *Myxobolus cerebralis* (Whirling Disease) testing.

BKD ELISA summary in mortality for July 2007 – February 2008 in BY2006 spring Chinook juveniles on hand at Lookingglass Hatchery and cumulative % mortality from final ponding to the end of February 2008				
Stock	Raceway	BKD Segregation	Cumulative % Mortality	Proportion (%) ELISA OD \geq 1.000
Catherine Creek Conventional (201W06)	R1	Low	0.40	5/38 (13.1%)
Catherine Creek Conventional (201W06)	R2	Low	0.42	2/37 (5.4%)
Catherine Creek Captive F ₁ (201F06)	R3	Low/mod-low	0.33	0/28 (0)
Catherine Creek Captive F ₁ (201F06)	R4	Moderate/high	0.31	0/33 (0)
Grande Ronde Conventional (80W06)	R5	Low	0.38	2/22 (9.1%)
Grande Ronde Conventional (80W06)	R6	Low	0.43	2/22 (9.1%)
Grande Ronde Conventional (80W06)	R7	Low	0.43	2/17 (11.8%)
Grande Ronde Conventional (80W06)	R8	Low	0.37	1/15 (6.7%)
Lostine River Conventional (200W06)	R9	Low	0.55	4/21 (19.0%)
Lostine River Captive F ₁ (200F06)	R10	Low/mod-low	0.78	0/34 (0)
Lostine River Conventional (200W06)	R11	Low	0.84	1/24 (4.2%)
Lostine River Conventional (200W06)	R12	Low	0.75	5/33 (15.1%)
Imnaha River Conventional (2906)	R13	Low	0.37	1/15 (6.7%)
Imnaha River Conventional (2906)	R14	Low	0.39	0/13 (0)
Imnaha River Conventional (2906)	R15	Low	0.44	1/12 (8.3%)
Imnaha River Conventional (2906)	R16	Low	0.67	0/14 (0)
Imnaha River Conventional (2906)	R17	Low	0.98	0/16 (0)
Imnaha River Conventional (2906)	R18	Low	0.57	1/14 (7.1%)

February Fish Health summary for BY2006 spring Chinook juveniles on hand at Lookingglass Hatchery.

Stock #	Stock Name	Culture Results	Comments
201W06	Catherine Creek Conventional	No significant levels of systemic bacteria detected	5/10 mortalities had gross signs of BKD
201F06	Catherine Creek Captive Brood progeny	No significant levels of systemic bacteria detected	
80W06	Grande Ronde River Conventional	No significant levels of systemic bacteria detected	3/10 mortalities had gross signs of BKD
200W06	Lostine River Conventional	2/10 (20%) had a moderate level of APS bacteria	7/10 mortalities had gross signs of BKD
200F06	Lostine River Captive Brood progeny	2/9 (22.2%) had a moderate level of APS bacteria	1/9 had a kidney adhesion
2906	Imnaha River	5/10 (50%) had low to moderate levels of APS bacteria	2/10 mortalities had gross signs of BKD, 1/10 had a kidney adhesion

Examination of Lostine River BY2007 ChS – No pathogens were detected in any of the eight moribund fish examined for bacteria, parasites and virus.

Preliberation Examination for Fry Outplant, Lostine River BY2007 Captive Broodstock F₁ – No problems reported or detected. Five of seven (71.4%) had APS bacteria. All virus samples were negative.

Maintenance:

BY HATCHERY CREW:

- Transported garbage to Waste Pro station in La Grande, OR
- Crew repaired pond cleaning brushes and mort nets
- Crew cleaned empty incubation trays.

- Crew removed snow around the hatchery, residence's, and hatchery road
- Cleared snow from road above intake for StS releases.
- Crew repaired various snow removal equipment and did necessary maintenance
- Crew doing Misc. repairs and painting in empty managers' house.
- Repaired fish pump.
- Replaced battery on back-up Kohler generator at Imnaha Facility.
- Greased inside zerks on traveling water screens at intake.
- Looked for water leaks under house at the Imnaha Facility.
- Quarterly domestic water samples were taken for Lookingglass Hatchery and the Imnaha Facility.
- Greased drum filter on UV system.
- Checked out pressure washers before using to clean empty raceways.

BY CONTRACTORS:

- **Wallowa County Road Dept.** – Assisted hatchery personnel to plow out Imnaha Acclimation Facility.
- **Coffey Laboratories (Pendleton, OR)** - Quarterly domestic water samples for Lookingglass and Imnaha were analyzed for coliforms and fecal coliforms.

NPDES Waste Discharge Permit Monitoring

- Chemical usage log was updated
- Quarterly DEQ report was completed and sent to M. Latif for approval.

Public Outreach:

- Nothing at this time

Miscellaneous:

- Don Hair was here the 13th, to pick up Grande Ronde fry and transfer them to Wallowa Hatchery for the captive brood program.

Personnel:

- Roger Elmore was selected to fill the vacant Hatchery Manager position and will assume command on April 1st.
- Diane Deal is the acting interim manager until the end of March.
- Ken Loffink the Fish and Wildlife Technician 2 from the Imnaha Facility was chosen to fill the vacant Fish Passage Biologist position in Pendleton.
- Diane Deal attended the Cold Water Fish Culture class held in Bozeman, MT. and the LSRCP Annual Meeting.

Safety:

- The monthly safety meeting was held March 26th. The subject was about safety procedures the crew implemented during the snowy, icy winter months and even with personnel shortages were able to perform their tasks safely.

Other:

- Nothing at this time

Imnaha Adult Trap and Acclimation Facility:

- The Imnaha Acclimation Facility was opened March 3rd.
- 349,145 fish were transported to the facility March 12-14th.
- 232 mortality were collected for the month of March.
- Volitional release started the evening of March 26th and will end April 10th.

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
Brad Smith	N. E. Region, Enterprise
Bill Knox	N. E. Region, Enterprise
Fred Monzyk	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
Greg Davis	Wallowa Hatchery
Duane Banks	Oxbow Hatchery

Guy Chilton	ODFW, Salem Hdqrts
Muhammad Latif	ODFW, Salem Hdqrts
Todd Hanna	Mt. Hood CC
Roger Elmore	Lookingglass Hatchery
Bill Barnes	Lookingglass Hatchery
Diane Deal	Lookingglass Hatchery
Albert Pollreisz	Lookingglass Hatchery
Brian Johnson	Lookingglass Hatchery
Tim Helwick	Lookingglass Hatchery