

Oregon Department of Fish and Wildlife

Lookingglass Hatchery Monthly Progress Report

Reporting Month: February 2008
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Date: March 3, 2008

Fish Culture:

- Picked mortality daily in Raceways (RW's)
- Crew ponded fry in Innaha, Lostine, Grande Ronde, and Catherine Creek stocks.
- Crew cleaned and did Passive Integrated Transponder (P.I. T.) tag recovery in Raceways 1-18
- Fed fish according to monthly feed program
- Crew took temperature units (TU's) daily from egg incubation trays
- NOAA Fisheries, Don Larsen, Kathy Cooper, Dina Spergenberg, and Deb Horstad, and NERO Pathology Dept. was here on the 26th of February to participate in a Precocial Jacking Study.
- Crew installed Steelhead trap at the Intake and picket weir, but did not drop the pickets in until March 1st.
- NE Region Pathology – Sam Onuukka, pre-lib sampling
- Weight Length frequencies/sampling taken by Research and Tribal co-managers on February 12th through 15th
- EOM reports

Fish Distributions:

Fish On Hand In Raceways:

DATE	SPECIES	STOCK	SIZE f/lb	grams/fish	NUMBER	LOCATION
2/29/08	CHS	CQ20106	21.50	21.12	58,517	LGH (R-1)
2/29/08	CHS	CQ20106	21.20	21.42	58,462	LGH (R-2)
2/29/08	CHS	CQ201F06	20.30	22.36	25,284	LGH (R-3)
2/29/08	CHS	CQ201F06	21.82	20.81	18,003	LGH (R-4)
2/29/08	CHS	GQ8006	21.90	20.73	63,658	LGH (R-5)
2/29/08	CHS	GQ8006	20.50	22.15	63,609	LGH (R-6)
2/29/08	CHS	GQ8006	18.90	24.02	63,906	LGH (R-7)
2/29/08	CHS	GQ8006	20.80	21.83	68,954	LGH (R-8)
2/29/08	CHS	LQ20006	18.90	24.02	65,655	LGH (R-9)
2/29/08	CHS	LQ200F06	21.70	20.92	10,498	LGH (R-10)
2/29/08	CHS	LQ20006	19.00	23.89	63,754	LGH (R-11)
2/29/08	CHS	LQ20006	21.20	21.42	65,414	LGH (R-12)
2/29/08	CHS	IM2906	21.10	21.52	59,672	LGH (R-13)
2/29/08	CHS	IM2906	21.10	21.52	59,645	LGH (R-14)
2/29/08	CHS	IM2906	20.50	22.15	59,677	LGH (R-15)
2/29/08	CHS	IM2906	27.40	16.57	59,507	LGH (R-16)
2/29/08	CHS	IM2906	22.90	19.83	59,344	LGH (R-17)
2/29/08	CHS	IM2906	20.10	22.59	51,378	LGH (R-18)

Eggs on hand in trays:

STOCK	EGG LOT # (#Female s)	PICK LOSS	SHOCK LOSS	LIVE EGG TOTAL	FRY LOSS	FRY PONDED
IMNAHA RIVER						
IM-29-07	431 (1)	3	2,824	2,975	22	2,953
IM	432 (7)	169	16,805	14,091	157	11,857
IM	433 (17)	195	8,824	68,644	912	67,732
IM	434 (60)	2,392	69,676	185,076	2,033	183,043
IM	435 (7)	119	2,121	29,648	175	29,473
IM	436 (1)	43	31	4,700	32	4,668
LOSTINE RIVER					Total =	299,726
LQ-200-07	334 (10)	63	11,183	38,847	271	38,576
LQ	335 (19)	477	8,958	77,378	459	76,919
LQ	336 (15)	169	2,245	63,984	509	63,475
LQ	337 (12)	125	1,630	47,440	375	47,065
LQ	338 (2)	189	9,037	4	1	3
LQ	339 (2)	13	1,389	4,229	99	4,130
GRANDE RONDE RIVER					Total =	230,168
GQ-80-07	129 (1)	18	3,386	1,045	2	1,038
GQ	130 (7)	46	6,621	18,018	327	17,658
GQ	131 (15)	107	10,744	45,145	387	44,681

GQ	132 (10)	129	2,565	34,928	635	34,238
CATHERINE CREEK					Total =	97,615
CQ-201-07	123 (2)	4	2,834	5,489	22	5,467
CQ	124 (24)	143	19,560	69,433	803	68,630
CQ	125 (12)	32	1,617	46,286	255	46,031
CQ	126 (7)	42	626	24,999	129	24,870
CATHERINE CREEK C.B. 201-F-07					Total =	144,998
BO*	321	5	N/A	4,210	104	4,101
BO*	322	14	N/A	7,604	240	7,350
BO*	323	N/A	N/A	41,659	595	41,064
BO*	324	N/A	N/A	36,559	1,111	35,448
BO*	325	N/A	N/A	18,602	448	18,154
GRANDE RONDE C.B. 80-F-07					Total =	106,117
BO*	302	7	N/A	4,926	59	4,860
BO*	303	37	N/A	4,450	275	4,138
BO*	304	N/A	N/A	31,842	952	30,890
BO*	305	N/A	N/A	17,709	372	17,337
BO*	306	N/A	N/A	6,340	142	6,198
LOSTINE RIVER C.B. 201-F-07			LOSTINE MOD RELEASES		Total =	63,423
BO*	313	31	1,718	10,867	746	8,372
BO*	314	N/A	4,921	26,172	809	20,442
BO*	315	N/A	10,067	55,796	1,844	43,885
BO*	316	N/A	1,617	22,127	1,242	19,268
BO*	317	N/A	NONE	5,792	168	5,624
		Total =	18,323		Total =	97,591

LOOKINGGLASS CREEK						
LG-81-07	248 (8)	92	8,120	16,636	415	16,221
LG	249 (14)	354	7,040	32,891	1,093	31,798
LG	250 (1)	2	114	2,806	8	2,798
					Total =	50,817

* Captive Brood stock from Oxbow FH

Fish Health

II. LSRCP Fish Health Examinations

A. Lookingglass Hatchery

BY2006 ChS – BKD was detected in some of the January mortality from all four conventional production stocks. No virus has been detected in BY2006 juveniles to date. We found there was 99.8% reduction in total bacterial counts in post UV treated Lookingglass Creek water in January with a UV dose setting of ~300,000 mw and a flow setting of 250-265 GPM.

BKD ELISA summary in mortality for July 2007 – January 2008 in BY2006 spring Chinook juveniles on hand at Lookingglass Hatchery and cumulative % mortality from final ponding to the end of January 2008				
Stock	Raceway	BKD Segregation	Cumulative % Mortality	Proportion (%) ELISA OD \geq 1.000
Catherine Creek Conventional (201W06)	R1	Low	0.30	1/33 (3.0%)
Catherine Creek Conventional (201W06)	R2	Low	0.32	1/32 (3.1%)
Catherine Creek Captive F ₁ (201F06)	R3	Low/mod-low	0.27	0/23 (0)
Catherine Creek Captive F ₁ (201F06)	R4	Moderate/high	0.26	0/28 (0)
Grande Ronde Conventional (80W06)	R5	Low	0.29	1/20 (5%)
Grande Ronde Conventional (80W06)	R6	Low	0.33	0/19 (0)
Grande Ronde Conventional (80W06)	R7	Low	0.34	2/15 (13.3%)
Grande Ronde Conventional (80W06)	R8	Low	0.32	1/12 (8.3%)
Lostine River Conventional (200W06)	R9	Low	0.31	2/18 (11.1%)
Lostine River Captive F ₁ (200F06)	R10	Low/mod-low	0.70	0/25 (0)
Lostine River Conventional (200W06)	R11	Low	0.58	0/21 (0)
Lostine River Conventional (200W06)	R12	Low	0.49	1/29 (3.4%)
Imnaha River Conventional (2906)	R13	Low	0.25	0/13 (0)
Imnaha River Conventional (2906)	R14	Low	0.27	0/12 (0)
Imnaha River Conventional (2906)	R15	Low	0.30	0/11 (0)
Imnaha River Conventional (2906)	R16	Low	0.46	0/12 (0)
Imnaha River Conventional (2906)	R17	Low	0.71	0/14 (0)
Imnaha River Conventional (2906)	R18	Low	0.38	1/12 (8.3%)

January 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	2/10 mortalities had gross signs of BKD
201F06	Catherine Creek Captive Brood progeny	1/10 (10%) had a low level of aeromonad-pseudomonad (APS) bacteria	
80W06	Grande Ronde	1/10 (10%) had a heavy level of <i>Yersinia</i>	4/10 mortalities had gross signs of

	River Conventional	<i>ruckeri</i> (enteric redmouth) and 1/10 (10%) APS bacteria	BKD
200W06	Lostine River Conventional	1/10 (10%) had a moderate level of APS bacteria	3/10 mortalities had gross signs of BKD
200F06	Lostine River Captive Brood progeny	No significant levels of systemic bacteria detected	
2906	Imnaha River	2/12 (16.7%) had APS bacteria and 1/12 (8.3%) had internal fungus	1/12 mortalities had gross signs of BKD

Maintenance:

BY HATCHERY CREW:

- Built stand-up man-lift
- Set up building for tagging crews
- Built final covers for basement window wells for Prop. # 31001
- Repaired 6410
- Repaired 755
- Repaired Simplicity Snow blower
- Repaired Automatic Feeders
- Cleaned, sterilized, and put incubation trays away for season
- Started cleaning, painting and repairing managers residence
- End of Month maintenance reports

BY CONTRACTORS:

- **Elkhorn Electric Inc. (Baker City, OR)**- General electrical work and emergency repairs to domestic well system
- **Oregon Department of Forestry (La Grande)**- Brandon Daniels installed new ODF radio frequency in the Dodge Hemi Pickup radio
- **Wallowa County Road Dept.** – Plowed the road to the Imnaha Acclimation site
- **Dish Network** – Repaired Imnaha satellite dish
- **Bio Oregon** – Feed delivery on 5th of February, fry feed

NPDES Waste Discharge Permit Monitoring

- Chemical usage log was updated
- Quarterly DEQ water samples were taken and analyzed

Public Outreach:

- Nothing at this time

Miscellaneous:

- Nothing at this time

Personnel:

- Roger Elmore Assistant Manager of Sawtooth FH, 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, our Fish and Wildlife Technician 2 from the Imnaha Facility, was chosen to fill the vacant Fish Passage Biologist position in Pendleton.
- Diane attended Regional meeting on 19-February
- Tim Helwick attended the wolf management meeting at NE Region on the 28th of February and presented the information he received at that meeting to the crew.

Safety:

- Lookingglass Hatchery's safety meeting was held on the 29th of February by Brian M. Johnson, and the crew was instructed and shown how to safely operate, handle, and maintain the fish pump.. Each crew member was given the opportunity to operate the fish pump.
- Diane Deal, Albert Pollreisz, Tim Helwick, Ken Loffink, and Brian M. Johnson attended First Aid/CPR training in La Grande.

Other:

- Nothing at this time

Imnaha Adult Trap and Acclimation Facility:

- Brian M. Johnson and Ken Loffink snowmobiled into the Imnaha Facility to check on the condition of the facility. This was also a pre-check to see the condition of the road and if we needed to get the Wallowa Cty. Rd. Dept. in early to plow to the facility.

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
Bill Barnes	Lookingglass Hatchery
Diane Deal	Lookingglass Hatchery
Albert Pollreisz	Lookingglass Hatchery
Brian Johnson	Lookingglass Hatchery
Tim Helwick	Lookingglass Hatchery
Ken Loffink	Lookingglass Hatchery