

Oregon Department of Fish and Wildlife

Lookingglass Hatchery Monthly Progress Report

Reporting Month: January 2008
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Date: January 31, 2008

Fish Culture:

- Picked mortality daily in Raceways (RW's)
- Crew picked fry in Imnaha, Lostine, Grande Ronde, and Catherine Creek stock incubation trays
- 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
- UV creek water with ambient well water is the water supply to the incubation trays
- Crew began working on ponding plans for Canadian Troughs and Raceways for 2007 brood year
- Crew set up Canadian troughs for 2007 brood year fry
- Crew checked and repaired automatic feeders

Fish Distributions:

Fish On Hand In Raceways:

<u>DATE</u>	<u>SPECIES</u>	<u>STOCK</u>	<u>SIZE f/lb</u>	<u>grams/fish</u>	<u>NUMBER</u>	<u>LOCATION</u>
1/31/08	CHS	CQ20106	25.74	17.64	58,569	LGH (R-1)
1/31/08	CHS	CQ20106	25.84	17.57	58,501	LGH (R-2)
1/31/08	CHS	CQ201F06	26.54	17.11	25,298	LGH (R-3)
1/31/08	CHS	CQ201F06	23.70	19.17	18,005	LGH (R-4)
1/31/08	CHS	GQ8006	24.03	18.89	63,687	LGH (R-5)
1/31/08	CHS	GQ8006	23.40	19.40	63,646	LGH (R-6)
1/31/08	CHS	GQ8006	24.82	18.29	63,936	LGH (R-7)
1/31/08	CHS	GQ8006	26.58	17.08	68,984	LGH (R-8)
1/31/08	CHS	LQ20006	23.93	18.97	65,787	LGH (R-9)
1/31/08	CHS	LQ200F06	26.98	16.83	10,506	LGH (R-10)
1/31/08	CHS	LQ20006	26.71	17.00	63,914	LGH (R-11)
1/31/08	CHS	LQ20006	22.91	19.82	65,587	LGH (R-12)
1/31/08	CHS	IM2906	22.82	19.90	59,746	LGH (R-13)
1/31/08	CHS	IM2906	25.32	17.93	59,724	LGH (R-14)
1/31/08	CHS	IM2906	25.11	18.08	59,766	LGH (R-15)
1/31/08	CHS	IM2906	24.43	18.58	59,636	LGH (R-16)
1/31/08	CHS	IM2906	25.94	17.50	59,546	LGH (R-17)
1/31/08	CHS	IM2906	27.36	16.59	51,491	LGH (R-18)

Eggs on hand in trays:

STOCK IMNAHA RIVER	EGG LOT # (#Females)	PICK LOSS	SHOCK LOSS	LIVE EGG TOTAL	FRY LOSS	FRY ON HAND
IM-29-07	431 (1)	3	2,824	2,975	19	2,956
IM	432 (7)	169	16,805	14,091	117	13,974
IM	433 (17)	195	8,824	68,644	576	68,068
IM	434 (60)	2,392	69,676	185,076	1,489	183,587
IM	435 (7)	119	2,121	29,648	112	29,536
IM	436 (1)	43	31	4,700	13	4,687
LOSTINE RIVER					Total =	302,808
LQ-200-07	334 (10)	63	11,183	38,847	125	38,722
LQ	335 (19)	477	8,958	77,378	256	77,122
LQ	336 (15)	169	2,245	63,984	371	63,613
LQ	337 (12)	125	1,630	47,440	221	47,219
LQ	338 (2)	189	9,037	4	1	3
LQ	339 (2)	13	1,389	4,229	54	4,175
GRANDE RONDE RIVER					Total =	230,854
GQ-80-07	129 (1)	18	3,386	1,045	1	1,044
GQ	130 (7)	46	6,621	18,018	235	17,783
GQ	131 (15)	107	10,744	45,145	281	44,864
GQ	132 (10)	129	2,565	34,928	549	34,379
CATHERINE CREEK					Total =	98,070
CQ-201-07	123 (2)	4	2,834	5,489	19	5,478
CQ	124 (24)	143	19,560	69,433	451	68,982
CQ	125 (12)	32	1,617	46,286	138	46,148
CQ	126 (7)	42	626	24,999	89	24,910
CATHERINE CREEK C.B.					Total =	145,518
CQ*	321	5	N/A	4,210	92	4,118
CQ*	322	14	N/A	7,604	160	7,444
CQ*	323	N/A	N/A	41,659	451	41,208
CQ*	324	N/A	N/A	36,559	448	36,111
CQ*	325	N/A	N/A	18,602	200	18,402
GRANDE RONDE C.B.					Total =	107,283
GQ*	302	7	N/A	4,926	43	4,883
GQ*	303	37	N/A	4,450	187	4,263
GQ*	304	N/A	N/A	31,842	478	31,364
GQ*	305	N/A	N/A	17,709	157	17,552
GQ*	306	N/A	N/A	6,340	66	6,274
LOSTINE RIVER C.B.					Total =	64,336
LQ*	313	31	N/A	10,867	660	10,207
LQ*	314	N/A	N/A	26,172	472	25,700
LQ*	315	N/A	N/A	55,796	1092	54,704
LQ*	316	N/A	N/A	22,127	543	21,584
LQ*	317	N/A	N/A	5,792	137	5,655
LOOKINGGLAS S CREEK					Total =	117,850
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/eggs from Oxbow FH

Fish Health

A. Lookingglass Hatchery

BY2006 ChS – Thus far we have not detected any BKD mortalities or virus in BY2006 juveniles. We found there was 99.1% reduction in bacterial counts in post UV treated water in December with a UV dose setting of ~300,000 mw and a flow setting of 250-265 GPM. BKD ELISA results are pending for October-December.

BKD ELISA summary in mortality for July - September in BY2006 spring Chinook juveniles on hand at Lookingglass Hatchery and cumulative % mortality from final ponding to the end of December 2007

Stock	Raceway	BKD Segregation	Cumulative % Mortality	Proportion (%) ELISA OD \geq 1.000
Catherine Creek Conventional (201W06)	R1	Low	0.28	0/15 (0)
Catherine Creek Conventional (201W06)	R2	Low	0.30	0/13 (0)
Catherine Creek Captive F ₁ (201F06)	R3	Low/mod-low	0.22	0/10 (0)
Catherine Creek Captive F ₁ (201F06)	R4	Moderate/high	0.21	0/12 (0)
Grande Ronde Conventional (80W06)	R5	Low	0.28	0/7 (0)
Grande Ronde Conventional (80W06)	R6	Low	0.30	0/6 (0)
Grande Ronde Conventional (80W06)	R7	Low	0.30	0/6 (0)
Grande Ronde Conventional (80W06)	R8	Low	0.27	0/8 (0)
Lostine River Conventional (200W06)	R9	Low	0.25	0/8 (0)
Lostine River Captive F ₁ (200F06)	R10	Low/mod-low	0.62	0/11 (0)
Lostine River Conventional (200W06)	R11	Low	0.54	0/10 (0)
Lostine River Conventional (200W06)	R12	Low	0.40	0/10 (0)
Imnaha River Conventional (2906)	R13	Low	0.23	0/5 (0)
Imnaha River Conventional (2906)	R14	Low	0.24	0/5 (0)
Imnaha River Conventional (2906)	R15	Low	0.27	0/5 (0)
Imnaha River Conventional (2906)	R16	Low	0.39	0/5 (0)
Imnaha River Conventional (2906)	R17	Low	0.57	0/6 (0)
Imnaha River Conventional (2906)	R18	Low	0.31	0/4 (0)

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

Stock #	Stock Name	Culture Results	Comments
201W06	Catherine Creek Conventional	1/10 (10%) had aeromonad-pseudomonad (APS) bacteria	1/10 mort/moribund fish had a kidney adhesion
201F06	Catherine Creek Captive Brood progeny	1/7 (14.3%) had a low level of APS bacteria	1/7 mortalities had a kidney adhesion
80W06	Grande Ronde River Conventional	3/10 (30%) APS bacteria	2/10 mortalities had caudal fin erosion and fungus
200W06	Lostine River Conventional	2/10 (20%) had low levels of <i>Pseudomonas fluorescens</i>	1/10 mortalities had caudal fin erosion
200F06	Lostine River Captive Brood progeny	No significant levels of systemic bacteria detected	
2906	Imnaha River	1/12 (8.3%) low level of APS bacteria	One moribund fish from raceway 17 had a hematocrit of 5%

Maintenance:

BY HATCHERY CREW:

- Transported garbage to Waste Pro station in La Grande, OR
- Crew finished new fish measuring boards for spawn room
- Crew repaired pond cleaning pond brushes and mort nets
- Crew finished fabricating new race way magnets for P.I.T. tag recovery
- Crew removed snow around the hatchery, residence's, and hatchery road
- Crew de-iced intake and removed any and all ice and slush built up on or around spill way
- Crew finished construction of new burn barrel and relocated burn barrel to fire safe location
- Crew fabricated and installed basement window well covers for resident house # 231002
- Crew repaired various snow removal equipment and did necessary maintenance

BY CONTRACTORS:

- **Elkhorn Electric Inc. (Baker City, OR)**- General electrical work and emergency repairs to domestic well system
- **S&G Machinery (LaGrande, OR)**- installed front end loader and hardware for John Deer 755 tractor
- **Wheeler Communications (The Dalles, OR)**- Worked on Zetron alarm system at hatchery and performed annual inspection on entire radio system
- **Oregon Department of Forestry (La Grande)**- Brandon Daniels repaired Base Station- installed new ODF radio frequency, made recommendations for new Base station/radio antenna replacement and upgrade, and installed new ODF radio frequency in vehicle radios

NPDES Waste Discharge Permit Monitoring

- Chemical usage log was updated
- Quarterly DEQ Report was completed and sent in

Public Outreach:

- Nothing at this time

Miscellaneous:

- Nothing at this time

Personnel:

- Diane Deal is the acting interim manager until the position is filled and new personnel are hired.
- Ken Loffink, and Tim Helwick visited The Fish Hatchery Research Center and Alsea Hatchery for cross training January 14-17
- Ken Loffink interviewed for the position of NRS 1 in Pendleton, OR, on the 10th of January

Safety:

- Lookingglass Hatchery's safety meeting was held on the 29th of January and the crew was instructed and shown how to safely operate, handle, and maintain snowmobiles. Each crew member was given the opportunity to operate the snowmobile and get a feel for them.

Other:

- Nothing at this time

Imnaha Adult Trap and Acclimation Facility:

- Closed for Season