
CLEARWATER FISH HATCHERY
ANNUAL OPERATIONS REPORT
OCTOBER 1, 2010 – SEPTEMBER 30, 2011

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INTRODUCTION

Location

Clearwater Fish Hatchery (CFH) is located on the North Fork of the Clearwater River, 1.5 miles downstream from Dworshak Dam, 72.5 miles upstream from Lower Granite Dam, and 504 miles upstream from the mouth of the Columbia River.

Red River satellite facility is located 15 miles east of Elk City, Idaho—186 miles upstream from Lower Granite Dam and 618 miles from the mouth of the Columbia River.

Crooked River satellite facility is located 20 miles downstream of Red River. The trap is located one-half mile upstream of the mouth of Crooked River, a tributary of the South Fork of the Clearwater River. The juvenile rearing ponds are ten miles upstream from the Crooked River adult trap. Crooked River is 172.5 miles upstream from Lower Granite Dam and 604 miles upstream from the mouth of the Columbia River.

Powell satellite facility is located 122 miles east of the CFH at the headwaters of the Lochsa River. Missoula, Montana, 45 miles east is the closest town. Powell is 192.5 miles upstream from Lower Granite Dam and 624 miles upstream from the mouth of the Columbia River.

See Appendix 1 for property details.

Mitigation Goals

Lower Snake River Compensation Plan:

The annual goal of CFH and satellite facilities is to return 12,000 adult salmon and 14,000 adult Steelhead over Lower Granite Dam.

Idaho Department of Fish and game Objectives:

The objectives of Idaho Department of Fish and Game (IDFG) for the CFH are to reestablish historic fish runs into the upper Clearwater River tributaries, to enhance the wild spawning population, and to increase sport and tribal fishing opportunities.

SPRING CHINOOK SALMON

South Fork BroodYear 2011 (BY11)

(Red River / Crooked River)

In 1997, Red River and Crooked River stock Chinook were combined to make the South Fork stock and was continued in 2011 due to the straying of Chinook between the two drainages.

The Red River trap was put into operation March 31, 2011 for steelhead trapping. It was left in operation for Chinook trapping, and the first Chinook was trapped on July 2, 2011 and the last on September 5, 2011. The Red River trap was run a total of 158 days. A total of 530 fish were trapped of which 30 were wild/natural and 500 were hatchery origin.

The Crooked River trap was put into operation March 31, 2011 for steelhead trapping. It was left in operation for Chinook trapping, and the first Chinook was trapped on June 30, 2011 and the last on September 7, 2011. The Crooked River trap was operated 160 days. A total of 356 fish were trapped of which 27 were wild/natural and 329 hatchery origin.

South Fork (Red River and Crooked River 886 fish trapped)

Red River 289 adults, 241 jacks: Crooked River 316 adults, 40 jacks

Age Classes	Females	Males	Unknown
3 years	1	281	0
4 years	81	99	247
5 years	37	33	107
Total	119	413	354

See Appendix A for disposition details.

A total of 393 females were spawned between August 9 and September 7, 2011 for a total of 9 egg takes. No eggs from females were culled at spawning. During incubation, eggs from a total of 35 females were culled due to high BKD levels above a .30 BKD rating and four were culled for bad eggs. Three hundred fifty four (354) females were kept for CFH production.

A total of 1,492,289 green eggs taken for South Fork stock egg allocations yielded 1,401,245 eyed eggs for an eye-up average of 93.95%.

See Appendix B1 for egg take breakdown.

A total of 886 fish were trapped of which 57 were wild/natural and 829 were hatchery.

Powell BY11

For the 15th year, the Fishery Research trap on Crooked Fork Creek was operated in conjunction with our Powell trap on Walton Creek to collect hatchery fish in the upper Lochsa basin. The Walton Creek weir was installed on June 1, 2011 and taken out of operation on September 12, 2011. The Powell trap was operated 102 days. The first Chinook was trapped on July 1, 2011 and the last Chinook was trapped on September 6, 2011.

A total of 1,110 fish were trapped of which 9 were wild/natural and 1,101 were hatchery origin.

The Crooked Fork trap was in operation between July 18, 2011 and September 15, 2011. A total of 82 fish were trapped at Crooked Fork Creek. The first fish was trapped on July 20, 2011 and the last on September 4, 2011. A total of 82 ad-clipped fish were transported to

Powell holding pond and used in hatchery spawning. Zero wild/natural fish were trapped and released above the weir.

A total of 1,192 fish were trapped in the Powell/Crooked Fork traps of which 9 were wild/natural origin and 1,183 were hatchery origin.

Powell and Crooked Fork (1,192 fish trapped)

Powell 884 Adults 226 Jacks: Crooked Fork 81 Adults 1 Jack

Age Classes	Females	Males	Unknown
3 years	3	224	0
4 years	200	129	532
5 years	7	15	82
Total	210	368	614

See Appendix A for disposition details.

A total of 542 females were spawned between August 1, 2011 and September 6, 2011 for a total of 10 egg-takes. Three females were culled at spawning, 41 in incubation for BKD, no additional were culled to lower 0.25 BKD rating and 11 for bad eggs. Eggs from 490 females were kept for hatchery production.

A total of 2,002,718 green eggs taken for Powell stock egg allocation yielded 1,864,757 eyed eggs with an overall eye-up average of 93.1%.

See Appendix B2.

A total of 3,559,538 green eggs from Powell and South Fork stock for CFH production yielded 3,329,038 eyed spring Chinook eggs with an overall eye-up average of 93.5%.

TRANSFER OF LIVE ADULT AND JACKS TO NEZ PERCE TRIBAL FISH HATCHERY (NPTH) AND FOOD BANKS

A total of 100 jacks were given to food banks. No adults were out planted or transferred to NPTH.

CHINOOK EGGS TRANSFERRED TO OTHER HATCHERIES

During this current fiscal year, no eggs were transferred to other facilities.

CHINOOK EGGS TRANSFERRED FROM OTHER HATCHERIES.

A total of 334,137 green summer Chinook eggs from 73 females were received from McCall Hatchery yielding 311,228 eyed eggs for a 93.1% eye-up. Two females were culled for

high BKD, one for bad eggs and zero to lower BKD levels. A total of 70 were kept for production.

CFH received eggs from a total of 18 females from Kooskia stock held at DNFH. A total of 95 females were culled for (+) IHN results and zero were culled because of bad eggs at Dworshak. A total of 18 females were kept for production and they yielded 64,531 green eggs and after picking yielded 63,036 eyed eggs for a 97.6% eye up.

DISTRUBUTION

Chinook

Distribution of acclimated BY09 spring Chinook smolts by CFH personnel began March 23, 2011 with the transport of smolts to Lower Selway direct release site and finished April 7, 2011 with transport of South Fork stock to the Red River Facility. Powell smolts were acclimated approximately 5 hours and released each day on April 6-7, 2011. Direct release plants occurred at Crooked River introducing the summer Chinook run at Crooked River. This is the first release of summer Chinook into the Clearwater basin. The release occurred on March 29, 2011 and consisted of 204,061 summer Chinook. Transportation of CFH smolts to the Lower Selway River by CFH staff began on March 23, 2011 and finished on March 24, 2011. Smolts were transported to Red River between March 30, 2011 April 5, 2011 into the acclimation pond and held 5 hours to sunset and released. No overnight acclimation was attempted due to worries of extreme ice conditions at the acclimation pond. A total of 2,438,452 smolts (152,403 pounds) were transported to and released from CFH. All of these fish were marked. See Appendix G for detailed release information by release site. See Appendices C, E, and H for rearing cost.

Summer time releases of BY10 Chinook occurred at one release site. The parr (302,908:3,694 pounds) were released at McGruder Corridor of Selway River. These fish were reared at CFH and transported by NPTH personnel. No pre-smolts were released at Red River, Upper Crooked River, or Powell acclimation ponds. See Appendix G for detailed release information by release site.

TRANSFER TO OTHER STATIONS

BY10 pre-smolts were transferred to NPTH on September 15, 2011 (195,413: 3,908 lbs) for final rearing and release in spring of 2012.

STEELHEAD TROUT

Crooked River Trapping

Crooked River trap was put into operation to trap steelhead March 31, 2011. The first fish was trapped on April 15, 2011 and the last on May 13, 2011. A total of 9 fish were trapped

of which two were hatchery males, one was a wild/natural male, four were wild/natural females and two were hatchery females. All wild/natural fish were released above the weir, and all hatchery fish were released below the weir.

Red River Trapping

Red River trap was put into operation to trap steelhead on March 31, 2011. No steelhead were trapped during 2011.

High run off pressed the floating weir to the bottom of Red River for much of the steelhead trapping season. Even though the weir was not operating properly the trap remained accessible to fish.

Steelhead eggs received from other stations BY11

A total of 728,724 BY11 green eggs were received from DNFH for rearing to full term smolts at the CFH. This was the seventh year DNFH was unable to shock and pick CFH steelhead eggs before shipping them to CFH. DNFH incubated the eggs to eye-up. CFH staff shocked them at DNFH, transported them to CFH incubation room, and picked them the next day. From these green eggs 646,206 eyed eggs were produced. Eye-up percentage was 89.0%. There were 634,206 swim-up fry were ponded for CFH production. These fish will be released in the spring of 2012. CFH also received approximately 1,140,351 green eggs for early incubation, egg picking and enumeration for Magic Valley Fish Hatchery (MVFH). From these green eggs 1,065,227 eyed eggs were produced for MVFH. Eye-up percentage was 93.4%.

South Fork Clearwater River Localized Broodstock

This was the second year of the localized broodstock collection in the South Fork of the Clearwater River. Hatchery and regional staff began soliciting anglers to donate their fish to the program on March 2, 2011. They continued for a total of 5 days. A total of 50 females and 45 males were donated by anglers, all of which were of hatchery origin.

There were 47 females spawned yielding 267,578 green eggs. Eye up percentage was 88.77% and eyed eggs were 240,214. Swim up fry ponded for CFH production was 216,831.

DISTRIBUTION

Steelhead

A total of 878,387 BY10 North Fork steelhead smolts were transported to three release sites from CFH. See Appendix F for release details. CFH staff, two Idaho Fish and Game transportation operators, and six hatchery personnel with CDL's transported a total of 175,677 pounds of steelhead smolts. Some of the fish released at Red River and Crooked River had no external marks. See Appendices D, E, and H for rearing cost.

Rainbow

CFH staff released rainbow trout throughout the Clearwater region. CFH staff released 113,113 catchable size rainbows (41,677 pounds) March through September. These catchable rainbows were all of Troutlodge triploid stock reared at Dworshak National, Nampa, Mackay and American Falls Hatcheries in Idaho. Lyon's Ferry fish hatchery in Washington also raised fish for our resident rainbow outplant program. Rainbow trout were released into streams, lakes and ponds at 26 sites for a total of 73 plants. In addition to the catchable plants, CFH staff also released 45,225 (1,000 pounds) of fingerlings.

A total of 93 two-to-eight pound trout were recovered from the sediment basin and released throughout the year with the normal fish allocation.

Fish and Game license fees funded this project with cooperation from the U.S. Fish and Wildlife Service.

CONSTRUCTION PROJECTS / MAINTENANCE AND REPAIRS

- *Office Annex
- *Residence #8
- *Landscaping/fence/sidewalk at Residence #8
- *Steelhead raceway bird netting
- *Addition to truck storage structure-construction by Regional Enforcement for their storage on site ***
- *Installed conduit and pulled wire for Residence #8 alarm
- *Excavated and repaired 200+ yards of maintenance water line
- *Added lightning ground wire to Powell truck loading structure
- *Lower Crooked River cabin siding repair

NEW TOOLS AND EQUIPMENT PURCHASED

- *10 Wheel adult truck and tank
- *Portable shop compressor
- *Stationary compressor for Chinook bank feeders
- *Formalin storage/distribution building
- *Main hatchery building/shop stationary compressor
- *300 gallon adult tank for back of pickup
- *New engine for Toyota fork lift
- *Furniture for office annex
- *New rollaway tool box
- *New amp meter
- *Chemical eye wash/shower for formalin area
- *Two flow meters for hatchery alarm system
- *Three kitchen ranges for residences
- *Two dishwashers for residences
- *Residence #3 new carpet throughout
- *New phone system

*** Constructed with IDFG funds.

APPENDICES

Appendix A. Chinook Adult Returns to Clearwater Hatchery Satellite Facilities 2011

	Powell- Crooked Fork	Crooked River	Red River
Date of first return	7/1/2011 7/20/2011	6/30/2011	7/2/2011
Date of last return	9/7/2011 9//2011	9/7/2011	9/5/2011
Number of females returning	210		119
Number of males returning	368	413	
Number of unknown sex returning	613		354
Date of peak returns	7/17/2011 8/15/2011	7/20/2010	7/19/2011
Total trapped	1,192	356	530
Number released to spawn naturally above weir	2 females 7 males 0 unknowns	7 females 17 males 3 unknowns	10 females 17 males 3 unknown
Released to spawn below weir	0 females 0 males	0 females 0 males	0 females 00 males
Trap Mortality	0 females 0 males	0 females 0 males	0 females 0 males
Sport Fishery Out plant	0	0	0
Fish transferred from other traps	0	70	126
Number Spawned	542 females 448 Males		393 females* 346 males*
Pre-spawning mortality	13 females 13 Males		30 females* 25 males*
Fish transferred to other hatcheries	0	0	0
Fish given to Kamiah Food Bank	0		100

* In 1997, Red River and Crooked River Chinook were combined to make the South Fork stock.

**Includes fish trapped at Crooked Fork Weir.

Appendix B1. Chinook Spawning Record 2011 for South Fork

SOUTH FORK (Red River / Crooked River).

Lot	Spawn Date	Total Females	BKD Females Culled		Other Females Culled		Females Kept	Green Eggs	Eyed Eggs	Percent Eye Up	Fecundity
			Table	Incubation	Table	Incubation					
1	8/9/11	43	0	4	0	3	36	161,381	143,587	89.0	4,483
2	8/12/11	25	0	8	0	0	17	725,978	40,380	96.4	4,293
3	8/16/11	57	0	8	0	0	49	215,838	207,760	96.3	4,405
4	8/19/11	55	0	2	0	0	53	221,720	210,857	95.1	4,183
5	8/23/11	117	0	4	0	1	112	470,960	437,258	92.9	4,205
6	8/26/11	51	0	2	0	0	49	200,854	188,993	94.1	4,099
7	8/30/11	32	0	4	0	0	28	112,675	107,628	95.5	4,024
8	9/2/11	10	0	3	0	0	7	27,007	16,113	96.7	3,858
9	9/7/11	3	0	0	0	0	3	8,930	9,669	97.1	2,977
Total/Average		393	0	35	0	4	354	1,492,289	1,401,245	93.9	4,216

Appendix B2. Chinook Spawning Record 2011 for Powell.

POWELL

Lot	Spawn Date	Total Females	BKD Females Culled		Other Females Culled		Females Kept	Green Eggs	Eyed Eggs	Percent Eye Up	Fecundity
			Table	Incubation	Table	Incubation					
1	8/1/11	39	3	3	0	0	33	138,196	110,071	79.6	4188
2	8/8/11	97	0	12	0	0	85	340,883	316,782	92.9	4010
3	8/11/11	58	0	5	0	1	52	208,951	200,971	96.2	4018
4	8/15/11	54	0	5	0	0	49	199,494	190,064	95.3	4071
5	8/19/11	97	0	4	0	1	92	380,483	349,358	91.8	4136
6	8/22/11	103	0	4	0	4	95	391,068	368,373	94.2	4117
7	8/25/11	41	0	4	0	1	36	142,638	136,986	96.0	3962
8	8/29/11	28	0	3	0	1	24	102,511	98,215	95.8	4271
9	9/1/11	12	0	0	0	0	12	48,148	45,801	95.1	4012
10	9/6/11	13	0	1	0	0	12	50,346	48,136	95.6	4196
Total/Average		542	0	41	0	11	490	2,002,718	1,864,757	93.1	4,087

Appendix C. Chinook Rearing FY11

Rearing to fry stage only

BY10

Hatched from eyed eggs	NA
Percent hatched – eyed to fry	NA
Percent mortality to stocking	NA
Total number of fry stocked	NA
Total weight of fry stocked	NA
Average number/lb. of fry	NA
Conversion rate	NA

Rearing to Fingerling stage only (parr & pre-smolts)

BY10

Fingerlings produced	498,321
Weight of fingerlings produced	7,603
Percent mortality to stocking	3.46%
Average number/lb. of fingerlings	Parr 82.0 Pre-smolt 50.0
Conversion rate	0.93

Smolts reared (BY09 all stocks combined)

Hatched from eyed eggs	2,715,868
Percent hatched – eyed to fry	99.9%
Percent mortality to stocking	6.59%
Number of smolts produced	2,438,452
Weight of smolts produced	151,392
Average number/lb. of smolts	18.66
Average Conversion rate	1.09

BY09 Chinook

Total number of trips at release:	81 @ 1,800 lbs per trip.
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*See Table G for details

Appendix D. Steelhead Rearing FY11

Rearing to fry stage only

	BY10
Hatched from eyed eggs	NA
Percent hatched – eyed to fry	NA
Percent mortality to stocking	NA
Total number of fry stocked	NA
Total weight of fry stocked	NA
Average number/lb. of fry	NA
Conversion rate	NA

Rearing to Fingerling stage only

	BY10
Fingerlings produced	NA
Weight of fingerlings produced	NA
Percent mortality to stocking	NA
Average number/lb. of fingerlings	NA
Conversion rate	NA

Smolts reared

Dworshak

	BY10
Hatched from eyed eggs	956,319
Percent hatched – eyed to fry	99.9
Percent mortality to stocking	8.15
Number of smolts produced	878,387
Weight of smolts produced	172,670
Average number/lb. of smolts	5.12
Average Conversion rate	0.98

BY09 Steelhead

Total number of trips at release: 76 @ 2,100 lbs per trip.

Appendix E Chinook & Steelhead Food/Weight Gain

CHINOOK

FOOD FED & WEIGHT GAINED

	BY09	BY10
Period Fed: 10.01.09-9.30.10		
Feed Used (lb.) (LSRCP)	70,822	76,895
Weight Gain (lb.)	77,928	69,080
Feed Purchased FY10	\$89,049*	\$218,405*
Conversion	1.1	1.1

STEELHEAD

FOOD FED & WEIGHT GAINED

	North Fork BY10	BY11
Period Fed: 10.01.09-9.30.10		
Feed Used (lb.) (LSRCP)	132,350**	23,412
Weight Gain (lb.)	148,653	30,707
Feed Purchased FY10	\$125,877	\$137,434*
Conversion	0.91	1.06

Fish reared on station for other projects.

Feed cost provided by surplus feed from CFH.

Species	Rainbow
Agency reared for	Idaho Fish & Game
Period fed	June – Sept 2011
Feed fed (lb.)	6,000
Weight gain (lb.)	6,000
Cost	\$9,000
Conversion	1.0

*Portion of feed purchased will carry over to FY11

** Portion of feed purchased in FY10

Appendix F. F129 BY09 Steelhead Distribution and Marking

Release BY10 Steelhead Full Term Smolts

Date	Site	Number Released	Stock	Production/Supplementation	Length (mm)	FPP	Pounds	Marks	Raceways	Comments
4/11, 4/18/11	Newsome Creek	134,904	Dworshak	Supplementation	210.00	5.05	26,714	134,904 No marks, 3,591 PIT	7E, 7W	Direct Released
4/15/2011	Peasley Creek/SF CLW	70,618	Dworshak	Supplementation	212.00	4.90	14,412	70,618 No marks, 2,098 PIT	12E	Direct Released
4/15/2011	Peasley Creek/SF CLW	230,183	Dworshak	Production	210.00	5.00	46,037	181,431 AD, 48,752 AD/CWT, 5,195 PIT	11E, 11W, 12W	Direct Released
4/12-13/11	Red House Hole/SF CLW	229,509	Dworshak	Production	210.00	5.00	45,902	158,238 AD, 71,271 AD/CWT, 7,674 PIT	8-10E	Direct Released
4/15/2011	Peasley Creek/SF CLW	74,501	Localized Broodstock	Production	206.00	5.35	13,925	74,501 AD, 11,277 PIT	10W	Direct Released
4/14-15/11	Peasley Creek/SF CLW	138,672	Localized Broodstock	Supplementation	206.00	5.40	25,680	137,054 CWT only, 1,618 No marks, 3,987 PIT	8W, 9W	Direct Released
Total		878,387			209.00	5.12	172,670			

Appendix G. F129 Spring Chinook BY09 Distribution and Marking

Release BY09 Chinook Full Term Smolts

Date	Site	Number Released	Stock/Spring/Summer Chinook	Length (mm)	FPP	Pounds	Marks	Raceways	Comments
3/23-3/24/11	Lower Selway River	414,270	Powell/Spring	147	16.9	24,513	156,457AD only; 116,583 AD/CWT; 138,505 CWT ONLY; 2725 No mark; 17,083 PIT	2E, 3E, 4E, 5E	Direct Released
3/24-3/25/2011	Clear Creek	291,604	Powell/Spring	145	18.4	15,848	172,446 AD only; 119,158AD/CWT; 17,095 PIT	6E, 6W, 5WC	Direct Released
3/28/-4/7/11	Red River	1,114,760	SF Clearwater/Spring	152	15.5	71,920	999,093 AD only; 115,667 AD/CWT; 17,060 PIT	4A-11A, 4B-11B, 4WC	Acclimated in pond ~5 hours then force released
4/5-4/6/11	Powell	413,757	Powell/Spring	150	16	25,860	290,597 AD only; 123,160AD/CWT; 17,089 PIT	1A- 3A, 1B-3B	Acclimated in pond ~5 hours then force released
3/28-3/29/11	Crooked River	204,061	SF Salmon/Summer	152	15.4	13,251	197,250 CWT ONLY; 6,811 No Mark, 25,488 PIT	4W, 5W	Direct Released
Total		2,438,452		149	16.44	151,392			

Release BY09 Chinook Parr

Date	Site	Number Released	Stock/Spring/Summer Chinook	Length (mm)	FPP	Pounds	Marks	Raceways	Comments
6/14, 6/16/10	Upper Selway	313,351	Powell/Spring	83	81.3	3,854	100% Oxy-tet and no clip	1E	Transported by NPTH

Transfer BY09 Presmolt

Date	Site	Number Transferred	Stock/Spring/Summer Chinook	Length (mm)	FPP	Pounds	Marks	Raceways	Comments
10/22/2010	NPTH	254,896	SF Clearwater/Spring	102.00	44	5,814	172,844 CWT, 82,052 AD/CWT	1W, 2W	Transferred to NPTH

Appendix H Operation Cost 2011

Total Pounds Gain Reared on LSRCP budget	326,368 lbs
Total Feed Cost	\$570,674
Feed Cost per LB Gain (Feed only)	\$1.75

COST TO OPERATE ENTIRE PROJECT FOR 2010-2011

	Actual Spent	As of 9/30/2011 \$ encumbered
Personnel Cost	789,111	0
Operation Cost	452,924	0
Capital Outlay	0	0
Sub-Total	1,242,035	0
\$ Actual spent & \$ encumbered	0	
Overhead	219,952	0
Feed Cost	570,674	
Grand Total	2,032,661	

Total pounds reared by LSRCP funded personnel 332,368 lbs

Cost per pound using entire budget w/o overhead \$5.56/ lb

*A portion of this feed will be used in FY12

Appendix I CFH Property Information

Clearwater Hatchery

25 buildings**
0 wells
1.8 miles of pipeline
17.5 acres

Red River

4 buildings
0 wells
300 yards of pipeline
3.25 acres (approximately)

Crooked River (lower)

2 buildings*
1 well
187 yards of pipeline
6 acres

Crooked River (upper)

1 building
0 wells, 1 spring box
167 yards of pipeline
6.27 acres

Powell

2 buildings
1 well, 1 spring box, 1 direct creek source.
1 pump station from White Sands Cr.
200 yards of pipeline
7.77 acres

Total acreage is 40.79

* Building added: 7/2008 Lower Crooked River Storage shed

** Residence #8 added and inhabited April 2011.