
CLEARWATER FISH HATCHERY
ANNUAL OPERATIONS REPORT
OCTOBER 1, 2009 – SEPTEMBER 30, 2010

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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 Brood Year 2010

(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 2010 due to the straying of Chinook between the two drainages.

The Red River trap was put into operation March 11, 2010 for steelhead trapping. It was left in operation for Chinook trapping, and the first Chinook was trapped on June 20, 2010 and the last on September 8, 2010. The Red River trap was operated 190 days. A total of 500 fish were trapped of which 38 were wild/natural and 462 were hatchery origin.

The Crooked River trap was put into operation March 15, 2010 for steelhead trapping. It was left in operation for Chinook trapping, and the first Chinook was trapped on June 15, 2010 and the last on September 10, 2010. The Crooked River trap was operated 186 days. A total of 536 fish were trapped of which 31 were wild/natural and 505 hatchery origin.

South Fork (Red River and Crooked River 1,036 fish trapped)

Red River 479 adults, 21 jacks: Crooked River 474 adults, 62 jacks

Age Classes	Females	Males	Unknown
3 years	1	79	3
4 years	411	472	21
5 years	11	35	3
Total	423	586	27

See Appendix A for disposition details.

A total of 375 females were spawned between August 5 and September 9, 2010 for a total of 10 egg takes. Eggs from four females were culled at spawning. During incubation, eggs from a total of 25 females were culled due to high BKD levels and an additional zero were culled to a lower BKD 0.25 rating and three were culled for bad eggs. Three hundred forty nine (349) females were kept for CFH production.

A total of 1,340,203 green eggs taken for South Fork stock egg allocations yielded 1,292,726 eyed eggs for an eye-up average of 95.5%.

See Appendix B1 for egg take breakdown.

A total of 1,036 fish were trapped of which 69 were wild/natural and 967 were hatchery.

Powell BY10

For the 13th 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 May 18, 2010 and taken out of operation on September 21, 2010. The Powell trap was operated 127 days. The first Chinook was trapped on June 12, 2010 and the last Chinook was trapped on September 17, 2010.

A total of 732 fish were trapped of which 11 were wild/natural and 721 were hatchery origin

The Crooked Fork trap was in operation between June 26, 2010 and September 21, 2010. A total of 106 fish were trapped at Crooked Fork Creek. The first fish was trapped on

June 27, 2010 and the last on September 19, 2010. A total of 102 ad-clipped fish were transported to Powell holding pond and used in hatchery spawning. A total of three wild/natural fish were trapped and released above the weir.

A total of 838 fish were trapped in the Powell/Crooked Fork traps of which 14 were wild/natural origin and 824 were hatchery origin.

Powell and Crooked Fork(838 fish trapped)

Powell 628 Adults 108 Jacks Crooked Fork 101 Adults 1 Jack

Age Classes	Females	Males	Unknown
3 years	2	107	0
4 years	364	283	3
5 years	8	74	0
Total	374	461	3

See Appendix A for disposition details.

A total of 209 females were spawned between August 5, 2010 and September 8, 2010 for a total of 10 egg-takes. Zero females were culled at spawning, four in incubation for BKD, no additional were culled to lower 0.25 BKD rating and one for bad eggs. Eggs from 207 females were kept for hatchery production.

A total of 820,337 green eggs taken for Powell stock egg allocation yielded 761,140 eyed eggs with an overall eye-up average of 92.0%.

See Appendix B2.

A total of 2,160,540 green eggs from Powell and South Fork stock for CFH production yielded 2,053,860 eyed spring Chinook eggs with an overall eye-up average of 95.06%.

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

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

CHINOOK EGGS TRANSFERRED TO OTHER HATCHERIES

An additional 20 females were picked for a 76,977 green egg count and a 74,479 eyed egg count which yielded a 96.7% eye up. These eggs were transferred back to DNFH to cover an anticipated shortfall.

CHINOOK EGGS TRANSFERRED FROM OTHER HATCHERIES.

A total of 672,689 green spring Chinook eggs were received from Rapid River Hatchery yielding 668,581 eyed eggs for a 96.0% eye-up. A total of 17 females were culled for BKD. Due to a late surge of Chinook at all the traps, a total of 147 additional females were culled down to a full hatchery. Eggs from 163 females were kept for Clearwater production.

A total of 237,175 green summer Chinook eggs from 66 females were received from McCall Hatchery yielding 218,901 eyed eggs for a 92.3% eye-up. Two females were culled for high BKD, one for bad eggs and 20 to lower BKD levels. A total of 43 were kept for production.

Clearwater Fish Hatchery received eggs from a total of 97 females from Kooskia stock held at Dworshak National Fish Hatchery. A total of two females were culled for BKD and three were culled because of bad eggs. A total of 72 females were kept for production and they yielded 262,017 green eggs and after picking yielded 252,799 eyed eggs for a 97.0% eye up.

DISTRUBUTION

Chinook

Distribution of acclimated brood year 2008 spring Chinook smolts by CFH personnel began March 24, 2010 with the transport of smolts to Lower Selway direct release site and finished April 8, 2010 with transport of South Fork stock to the Red River Facility. Powell smolts were acclimated approximately 5 hours and released each day on April 2, April 5-6, 2010. No direct release plants occurred at Crooked River in preparation of introducing the summer Chinook run at Crooked River in spring of 2011. Transportation of CFH smolts to the Lower Selway River by CFH staff began on March 24, 2010 and finished on March 26, 2010. Smolts were transported to Red River between March 29-31, 2010 and April 1, 7-8, 2010 into the acclimation pond and held 5 hours to sunset and released. No overnight acclimation was possible due to extreme ice conditions on acclimation pond. A total of 2,251,033 smolts (147,714 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 brood year 2009 Chinook occurred at one release site. The parr (313,351: 3,854 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

Brood year 2009 pre-smolts were transferred to NPTH on September 22, 2010 (254,896: 5,814 lbs) for final rearing and release in spring of 2011.

STEELHEAD TROUT

Crooked River Trapping

Crooked River trap was put into operation to trap steelhead March 15, 2010. The first fish was trapped on March 15, 2010 and the last on May 15, 2010. A total of 73 fish were trapped of which 34 were hatchery males, 32 were wild/natural males, six were wild/natural females and one was a hatchery female. 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 11, 2010. Two steelhead were trapped during 2010. First fish was trapped on April 27, 2010 and last on May 14, 2010. Both fish were wild/natural origin.

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 Brood Year 10

A total of 1,074,776 BY10 green eggs were received from Dworshak National Fish Hatchery (DNFH) for rearing to full term smolts at the Clearwater Fish Hatchery (CFH). This was the sixth year DNFH was unable to shock and pick CFH steelhead eggs before shipping them to CFH. Dworshak National Fish Hatchery incubated the eggs to eye-up. Clearwater Fish Hatchery staff shocked them at DNFH, transported them to CFH incubation room, and picked them the next day. From these green eggs 1,006,727 eyed eggs were produced. Eye-up percentage was 93.7%. There were 717,084 swim-up fry were ponded for CFH production. These fish will be released in the spring of 2011. Clearwater Fish Hatchery also received approximately 1,193,496 green eggs for early incubation, egg picking and enumeration for Magic Valley Fish Hatchery (MVFH). From these green eggs 1,106,413 eyed eggs were produced for MVFH. Eye-up percentage was 92.7%. Also, 291,000 eyed eggs were culled at CFH and 115,289 for MVFH, to a full hatchery allocation.

South Fork Clearwater River Localized Broodstock

This was the first 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, 2010. They continued for a total of 12 days. A total of 51 females and 34 males were donated by anglers, all of which were of hatchery origin.

There were 46 females spawned yielding 259,720 green eggs. Eye up percentage was 96.41% and eyed eggs were 250,391. Swim up fry ponded for CFH production was 239,268.

DISTRIBUTION

Steelhead

A total of 854,960 BY09 North Fork steelhead smolts were transported to six release sites from CFH. See Appendix F for release details. CFH staff, two Idaho Fish and Game transportation drivers, and five drivers from McCall, Mackey, and Eagle Hatchery transported a total of 190,458 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

Clearwater Fish Hatchery staff released rainbow trout throughout the Clearwater region. CFH staff released 100,319 catchable size rainbows (38,481 pounds) April through October. These catchable rainbows were all of Troutlodge triploid stock reared at Nampa, Mackay and American Falls Hatcheries. They were released into streams, lakes and ponds at 22 sites for a total of 90 plants.

A total of 32 three-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

- *Lunchroom Mezzanine
- *Powell intake shield/Snow Cover
- *Argentyne Cart for in Incubation Room
- *2 Ton Fish Truck Tempering Pump Safety Bracket
- *Pump in Incubation
- *New Carpet in Residence 1 and 6
- *Exhaust Fans in Grounds Maintenance Building and Over Freezer
- *New Time Clock on Vat Room Fluorescent Lighting

MAINTENANCE AND REPAIRS

- *Red River Sewer Lift Station
- *Cleaned Powell Intake
- *Installed Lightening Rod at Powell
- *CFH Primary and Secondary Intake Cleaning
- *Adult holding CFH sprinkler replumb
- *Upper Crooked river fence repair
- *Repainted Three Raceways at 330' Section in Steelhead Raceways
- *Rewired Smolt Truck Aerators and Alarms
- *Repaired Mud Valves in the Vat Room
- *Resident Storage Sheds Repainted
- *Manufactured Spare Tire Racks on Two Smolt Trucks
- *Build Compressed Gas Safety Rack
- *Rebuilt Red River Floating Weir
- *Repaired Red River Flow Meters
- *Manufactured new Lunchroom Counter and Power Strip
- *Safety Cages on Steelhead Bridge Drive Mechanisms
- *Restroom Sinks in Dorm and Hatchery Building
- *Interpretive Signs Recondition and Weatherproofing
- *Repaired Eight Wheels on the Steelhead Bridge

NEW TOOLS AND EQUIPMENT PURCHASED

- *Bobcat Utility Vehicle
- *Tools for Shop Box
- *Ten Wheel Adult Truck and 2,400 Gallon Tank
- *Oxygen and Gas Saturation Meter
- *300 Gallon Fish Tank
- *Pressure Washer
- *Nitrogen Regulator

APPENDICES

Appendix A. Chinook Adult Returns to Clearwater Hatchery Satellite Facilities 2010

	Powell- Crooked Fork	Crooked River	Red River
Date of first return	6/12/2010- 6/27/2010	6/15/2010	6/20/2010
Date of last return	9/17/2010- 9/19/2010	9/10/2010	9/8/2010
Number of females returning	374		423
Number of males returning	461	586	
Number of unknown sex returning	3		27
Date of peak returns	6/30/2010- 6/30/2010	7/12/2010	8/19/2010
Total trapped	838	536	500
Number released to spawn naturally above weir	2 females 4 males 3 unknowns	6 females 13 males 12 unknowns	2 females 21 males 15 unknown
Released to spawn below weir	0 females 0 males	0 females 0 males	0 females 20 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	0	0
Number Spawned	209 females 215 Males		375 females* 387 males*
Pre-spawning mortality	160 females 4 males		36 females* 14 males*
Fish transferred to other hatcheries	0	0	0
Fish given to Kamiah Food Bank	0		0

* 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 2010 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	8/6/2010	9	1	0	0	0	8	32,144	27,648	86.0	4,018
2	8/10/2010	9	0	1	0	0	8	26,435	25,447	96.0	3,304
3	8/13/2010	9	0	0	0	0	9	36,007	35,427	98.0	4,000
4	8/17/2010	30	0	1	0	0	29	118,045	114,808	97.0	4,070
5	8/20/2010	57	0	3	0	1	53	215,472	212,120	98.0	4,065
6	8/24/2010	73	*1	6	0	0	67	250,631	244,965	97.7	3,740
7	8/27/2010	74	0	6	0	0	68	277,109	264,168	95.0	4,075
8	8/31/2010	54	0	1	0	1	52	204,190	195,848	95.9	3,926
9	9/3/2010	41	0	2	0	0	39	120,386	114,669	95.2	3,087
10	9/9/2010	21	2	2	0	1	16	59,784	57,626	96.4	3,737
Total/Average		377	4	22	0	3	349	1,340,203	1,292,726	95.5	3,802

*Put in incubation for Doug Munson, research

Appendix B2. Chinook Spawning Record 2010 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	8/5/2010	8	0	0	0	0	8	30,629	26,400	86.2	3,828
2	8/9/2010	6	0	0	0	1	5	19,320	17,950	92.9	3,864
3	8/12/2010	8	0	0	0	0	8	34,264	32,764	95.6	4,283
4	8/16/2010	44	0	1	0	0	43	170,576	157,918	92.5	3,967
5	8/19/2010	47	0	0	0	0	47	186,657	178,596	95.7	3,971
6	8/23/2010	31	0	0	0	0	31	116,219	106,786	91.8	3,749
7	8/26/2010	20	0	0	0	0	20	84,335	79,854	94.3	4,216
8	8/30/2010	21	2	0	0	0	19	77,603	69,668	89.7	4,084
9	9/2/2010	11	0	0	0	0	11	43,867	40,555	92.4	3,988
10	9/8/2010	16	1	0	0	0	15	56,867	50,919	89.5	3,791
Total/Average		212	3	1	0	1	207	820,337	761,140	92.0	3,974

Appendix C. Chinook Rearing FY10

Rearing to fry stage only

BY09

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)

BY09

Fingerlings produced		568,247*
Weight of fingerlings produced		9,668
Percent mortality to stocking		1.7%
Average number/lb. of fingerlings	Parr	81.3
	Pre-smolt	43.8
Conversion rate		0.83

Smolts reared (BY08 all stocks combined)

Hatched from eyed eggs	2,845,198
Percent hatched – eyed to fry	99.9%
Percent mortality to stocking	2.4%
Number of smolts produced	2,251,033
Weight of smolts produced	147,714
Average number/lb. of smolts	15.24
Average Conversion rate	0.98

BY08 Chinook

Total number of trips at release: 77 @ 1,800 lbs per trip.

*See Table G for details

Appendix D. Steelhead Rearing FY10

Rearing to fry stage only

BY09

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

BY09

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

BY09

Hatched from eyed eggs	916,146
Percent hatched – eyed to fry	94.1
Percent mortality to stocking	6.7
Number of smolts produced	854,960
Weight of smolts produced	190,458
Average number/lb. of smolts	4.5
Average Conversion rate	0.93

BY09 Steelhead

Total number of trips at release: 73 @ 2,100 lbs per trip.

Appendix E

**CHINOOK
FOOD FED & WEIGHT GAINED**

	BY08	BY09
Period Fed: 10.01.09-9.30.10		
Feed Used (lb.) (LSRCP)	83,835**	69,091
Weight Gain (lb.)	82,056	76,553
Feed Purchased FY10	\$47,925*	\$210,008*
Conversion	0.98	0.99

**STEELHEAD
FOOD FED & WEIGHT GAINED**

	North Fork BY09	BY10
Period Fed: 10.01.09-9.30.10		
Feed Used (lb.) (LSRCP)	133,987**	30,395
Weight Gain (lb.)	144,073	32,340
Feed Purchased FY10	\$52,250	\$141,923*
Conversion	0.93	0.95

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 2010
Feed fed (lb.)	2,000
Weight gain (lb.)	2,000
Cost	\$3,140
Conversion	1.0

*Portion of feed purchased will carry over to FY11

** Portion of feed purchased in FY09

Appendix F. F129 BY09 Steelhead Distribution and Marking

Release BY09 Steelhead Full Term

Date	Site	Number Released	Stock	Length	FPP	Pounds	Marks	Raceway	Comments
4/12-14/10	Red River	153,644	Dwor B	8.59	4.5	34,143	149,473 No clip; 4,171 No clip/PIT	10-11E; 11W	Acclimated in pond 5-6 hours
4/19-20/10	Peasley Creek/SF CLW	176,194	Dwor B	8.59	4.5	39,154	126,206 Ad only; 45,020 Ad/CWT; 1,982 Ad/CWT/PIT; 2,986 Ad/PIT	8-9E; 10W	Direct release
4/14-15/10	Upper Crooked River	86,743	Dwor B	8.59	4.5	19,743	84,351 No clip; 2,392 No clip/PIT	11W; 12E	Direct release
4/19-20/10	Red House Hole	186,133	Dwor B	8.59	4.5	41,363	111,315 Ad; 69,581 Ad/CWT; 3,239 Ad/PIT; 1,998 Ad/CWT/PIT	8-10 W	Direct release
4/15-16/10	Newsome Creek	107,312	Dwor B	8.59	4.5	23,847	104,557 No clip; 2,755 No clip/PIT	11-12W	Direct release
4/20-21/10	Clear Creek	144,934	Dwor B	8.59	4.5	32,208	140,855 Ad; 4,079 Ad/PIT	7E-7W	Direct release
	TOTAL	854,960				190,458			

Appendix G. F129 Spring Chinook BY08 Distribution and Marking

Release BY08 Chinook Full Term Smolts

Date	Site	Number Released	Stock	Length	FPP	Pounds	Marks	Raceways	Comments
3/24-26/10	Lower Selway	402,160	Powell	5.74	15.13	26,486	144,149 Ad; 113,492 Ad/CWT; 123,598 CWT; 2,735 unmarked; 6,695 Ad/PIT; 5,596 Ad/CWT/PIT; 5,895 CWT/PIT	2E A&B; 3E A&B; 2W A; 3W A	Direct Release
3/25-26/10	Clear Creek	129,735	Powell	5.8	14.73	8,759	61,345 Ad; 58,505 Ad/CWT; 9,885 Ad/CWT/PIT	4W A; 4W B	Direct Release
3/25-26/10	Clear Creek	99,870	South Fork	5.95	14.14	7,372	42,351 Ad; 49,226 Ad/CWT; 8,293 Ad/PIT	2W B; 3W B	Direct Release
4/2,5,6/10	Powell	413,158	Powell	5.75	15.07	27,436	275,719 Ad; 119,263 Ad/CWT; 5,391 Ad/CWT/PIT; 12,785 Ad/PIT	1-3 A; 1-3 B	Acclimated in Pond~5 Hours Forced Release Acclimated in Pond~5 Hours Forced Release(3 days); Acclimated in trucks (3 days)
3/29-31/10; 4/1,7,8/10	Red River	1,206,110	South Fork	5.69	15.55	77,661	1,073,671 Ad; 114,274 Ad/CWT; 2,995 Ad/CWT/PIT; 15,170 Ad/PIT	4-11A; 4-11B; 5W	
	TOTAL	2,251,033				147,714			
	AVERAGE				15.24				

Release BY08 Chinook Parr

Date	Site	Number Released	Stock	Length	FPP	Pounds	Marks	Raceways	Comments
6/22,24-29/2010	Upper Selway	315,252	Powell	3.23	84.9	3,713	Oxy-tet & No Clip	1E	Hauled by NPTH

BY08 Chinook Pre Smolt TRANSFER

Date	Site	Number Released	Stock	Length	FPP	Pounds	Marks	Raceways	Comments
9/16/2009	None	201,264	South Fork	4.08	42	4,792	135,291 CWT; 66,000 Ad/CWT	1W	NPTH

Appendix H

OPERATION COST 2010

Total Pounds Gain Reared on LSRCP budget	335,022 lbs
Total Feed Cost	\$452,106*
Feed Cost per LB Gain (Feed only)	\$1.35

COST TO OPERATE ENTIRE PROJECT FOR 2009-2010

	Actual Spent	As of 9/30/2010 \$ encumbered
Personnel Cost	721,426	0
Operation Cost	372,993	0
Capital Outlay	0	0
Sub-Total	1,094,419	0
\$ Actual spent & \$ encumbered	0	
Overhead	198,990	0
Feed Cost	452,106	
Grand Total	1,745,515	

Total pounds reared by LSRCP funded personnel 335,022 lbs

Cost per pound using entire budget w/o overhead \$5.21/ lb

*A portion of this feed will be used in FY11

Appendix I
Clearwater Fish Hatchery
Property Information

Clearwater Hatchery

24 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