

IRRIGON FISH HATCHERY**INTRODUCTION**

FILE#	
CRATEAU	
HERRIG	
KRAKKER	
LEPPER	

LOCATION

Irrigon Fish Hatchery is located in Morrow County, Oregon, approximately 279.4 miles upstream from the mouth of the Columbia River. There are no satellite facilities associated with this hatchery.

OBJECTIVES**Mitigation Goals**

Irrigon Fish Hatchery is part of the Lower Snake River Compensation Program (LSRCP) and has been in operation since 1985. The annual production goal is to rear 1.68 million steelhead smolts for release into the Grande Ronde and Imnaha river systems. To meet LSRCP goals, Irrigon Fish Hatchery receives eyed steelhead eggs from Wallowa Fish Hatchery and rears them to release or acclimation. Non-LSRCP fish reared include legal sized rainbow trout and 80,000 wild winter steelhead.

SUMMER STEELHEAD**Imnaha Stock**

BY98: Production was completed on April 28, 1999 with the transfer of 335,671 Imnaha stock (2998) steelhead smolts to Little Sheep Creek Acclimation Facility. All smolts were adipose finclipped, and 79,248 were coded-wire tagged and identified with a left ventral clip. A group of 5,015 presmolts surplus to production needs were liberated on November 4, 1998 into Big Sheep Creek.

BY99: In May and June of 1999, the hatchery received 516,190 Imnaha stock (2999) eyed eggs from Wallowa Fish Hatchery. Of these, 155,250 surplus to our production were released as presmolts into Big Sheep Creek and Little Sheep Creek in September 1999. The 332,842 resulting fingerlings were on hand September 30, 1999.

Wallowa Stock

BY98: Rearing was completed on May 7, 1999 with the transfer and release of 1,378,252 Wallowa stock (5698) steelhead smolts. All smolts had adipose fins removed. In addition 210,852 smolts had been coded-wire tagged and left ventral clipped. An additional 296,325 grade-outs were excess to production goals and were destroyed October 21, 1998.

BY99: Production began with the transfer of 1,310,000 eyed Wallowa stock (5699) steelhead eggs from Wallowa Fish Hatchery in the spring of 1999. Steelhead on hand September 30, 1999 numbered 981,776.

RECEIVED

NOV 29 1999

LSRCP OFFICE

CHINOOK

Rapid River Stock

BY98: Initial rearing of Rapid River stock (8598) spring chinook was completed with the transfer of 59,834 fingerlings to Lookingglass Fish Hatchery on February 25, 1999.

BY99: This year, adult Rapid River stock (8598) spring chinook were held at South Fork Walla Walla Facility. During August and September 27,542 green eggs were brought to Irrigon Fish Hatchery for incubation and early rearing.

Imnaha Stock

BY99: This year one half of the Imnaha (2999) spring chinook eggs came to Irrigon Fish Hatchery, along with sperm from appropriate males. Mixing of eggs and sperm took place at Irrigon Fish Hatchery. A total of 94,391 green eggs was on hand September 30, 1999. The remaining half of the Imnaha (2999) chinook eggs taken in 1999 were fertilized at Oxbow Fish Hatchery. All eyed Imnaha stock eggs will be transported to Irrigon Fish Hatchery for rearing.

CAPTIVE BROOD F1

The first progeny (F1's) from the captive brood program were incubated and early reared at Irrigon Fish Hatchery. The 78,713 fingerlings from the Upper Grande Ronde River, Catherine Creek, and Lostine River stocks were transferred to Lookingglass Fish Hatchery by April 2, 1999.

WINTER STEELHEAD

Clackamas River Stock

BY99: Production began with the transfer of 93,677 eyed Clackamas stock (12299) wild winter steelhead eggs from Clackamas Hatchery in June 1999. At the end of September, 88,561 fingerlings were on hand.

RAINBOW TROUT

Cape Cod Stock

During the reporting period, Irrigon Fish Hatchery received 72,845 legal rainbow trout from Fall River and Wizard Falls hatcheries. This provided 66,736 legal rainbow for stocking during late spring and summer of 1999.

CONSTRUCTION AND MAINTENANCE

One of the compressors on the chilled incubation water supply broke down and was replaced.

A small pump was pulled and repaired by a contractor in the Rainey collectors.

All fish pumps were converted from gas to electric by the maintenance staff. This has been especially nice on the grader not having to put up with the noise and exhaust all day long.

The crew replaced all the vexar side panels of the bird netting with nylon net panels. We expect the nylon to be much more durable.

The maintenance staff repaired several breaks in the domestic water line.

Two heat pumps ruptured and were replaced one in a residence and the other in the office.

Hatchery hosts helped out from June – August.

MAJOR PURCHASES

Electronic Scales	1,600.00
Pump Repair	5,600.00
Submersible Pump Repair	1,300.00
Chiller Compressor	2,700.00
Bird Predation Netting	3,100.00
Feeder replacement parts	3,400.00
Feeder Air Compressor	1,400.00
Residential Heat Pump	2,300.00
Office Heat Pump and Installation	3,800.00
Tuition "Intro to Fish Health" (two employees)	1,300.00
Total	<u>\$26,500.00</u>

Fingerlings Reared

Steelhead
Innaha Stock BY98

Number of fingerlings produced:	5,015
Weight of fingerlings produced (lbs.):	85.00
Percent mortality from egg take to transport out:	9.8%
Average number/pound of smolts produced:	59.00
Conversion rate:	1.24

Fingerlings were released into Big Sheep Creek in November 1998.

Steelhead
Innaha Stock BY99

Number of fingerlings produced:	149,990
Weight of fingerlings produced (lbs.):	1199.92
Percent mortality from egg take to transport out:	21%
Average number/pound of smolts produced:	125.00
Conversion rate:	0.81

90,009 fingerlings were released into Little Sheep Creek, and 59,990 were released into Big Sheep Creek in September 1999.

Smolts Reared

Steelhead
Wallowa Stock BY98

Number of smolts produced:	1,388,293
Weight of smolts produced (lbs.):	272,111.66
Percent mortality from egg take to transport out:	20.7%
Average number/pound of smolts produced:	5.10
Conversion rate:	1.09

**These include 1,260,498 smolts weighing 246,339.24 pounds reared for acclimation and release from Big Canyon Facility and Wallowa Acclimation Pond.*

Smolts Reared

**Steelhead
Imnaha Stock BY98**

Number of smolts produced:	335,671
Weight of smolts produced (lbs.):	61,749.56
Percent mortality from egg take to transport out:	36.5%
Average number/pound of smolts produced:	5.43
Conversion rate:	1.13

**All smolts were transported to Little Sheep Creek Facility for acclimation and release.*

Legals Reared (Rainbow Trout)

**Rainbow Trout
Cape Cod Stock BY97**

Number legals produced:	66,736
Weight of legals produced (lbs.):	25,962.76
Percent mortality from possession to stocking:	0.8%
Average number/pound of legals produced:	2.57
Conversion rate:	1.38

**Rainbow Trout
Cape Cod Stock BY98**

Number legals produced:	2,999
Weight of legals produced (lbs.):	1,110.74
Percent mortality from possession to stocking:	N/A*
Average number/pound of legals produced:	2.70
Conversion rate:	N/A*

**Rainbow were trucked to hatchery immediately prior to release.*

Food Fed and Weight Gain

Steelhead Wallowa Stock BY98

Irrigon Fish Hatchery	
Total pounds of food fed	298,132.00
Conversion rate	1.09
Total weight gain (lbs.) - all sizes produced	274,481.67

Steelhead Wallowa Stock BY99

Irrigon Fish Hatchery	
Total pounds of food fed	16,724.00
Conversion rate	1.14
Total weight gain (lbs.) - all sizes produced	14,732.00

Steelhead Imnaha Stock BY98

Irrigon Fish Hatchery	
Total pounds of food fed	69,576.00
Conversion rate	1.13
Total weight gain (lbs.) - all sizes produced	61,775.00

Steelhead Imnaha Stock BY99

Irrigon Fish Hatchery	
Total pounds of food fed	5,966.00
Conversion rate	1.10
Total weight gain (lbs.) - all sizes produced	5,442.00

Food Fed and Weight Gain

Winter Steelhead Faraday Trap Stock BY99

Irrigon Fish Hatchery

Total pounds of food fed	411.00
Conversion rate - total for all stages	0.89
Total weight gain (lbs.) - all sizes produced	461.00

Chinook Rapid River Stock BY98

Irrigon Fish Hatchery

Total pounds of food fed	64.00
Conversion rate - total for all stages	1.05
Total weight gain (lbs.) - all sizes produced	61.00

Transferred to Lookingglass Fish Hatchery for rearing.

Chinook Upper Grande Ronde Stock (F1's) BY98

Irrigon Fish Hatchery

Total pounds of food fed	7.00
Conversion rate	0.00
Total weight gain (lbs.) - all sizes produced	0.00

These are progeny of captive brood parents spawned in 1998.

Chinook Lostine River Stock (F1's) BY98

Irrigon Fish Hatchery

Total pounds of food fed	138.00
Conversion rate	0.00
Total weight gain (lbs.) - all sizes produced	0.00

These are progeny of captive brood parents spawned in 1998.

Food Fed and Weight Gain

Chinook Catherine Creek Stock (F1's) BY98

Irrigon Fish Hatchery

Total pounds of food fed	156.00
Conversion rate	0.00
Total weight gain (lbs.) - all sizes produced	0.00

These are progeny of captive brood parents spawned in 1998.

FY98 Stocking

Total number of distribution trips:	115*
Number of fry stocked	0
Weight of fry stocked:	0 lbs.
Number of fingerlings stocked:	155,005
Weight of fingerlings stocked:	1,284.92.
Number of smolts stocked:	127,795
Weight of smolts stocked:	25,772.42 lbs.
Number of legal trout stocked:	69,375
Weight of legal trout stocked:	27,072.74 lbs.
Date, location, number and weight at each stocking:	See Attached

**Approximately 75 trips were used for hauling steelhead to Big Canyon, Little Sheep Creek , or Wallowa acclimation facilities prior to release.*

Stocking Records for Irrigon Fish Hatchery, October 1, 1998
through September 30, 1999

Species	Lot	Date	Waterbody	No/ Lb	Pounds Loaded	Number Loaded	Morts	Pounds Stocked	Number Stocked
Rainbow Trout	056 98	05/07/1999	DEER CREEK	4.6	49.0	225	0	49.0	225
Rainbow Trout	072 97	05/06/1999	ANSON WRIGHT PD	3.1	325.0	1,008	2	324.4	1,006
Rainbow Trout	072 97	05/06/1999	CAVENDAR RES	3.1	806.0	2,499	0	806.0	2,499
Rainbow Trout	072 97	05/06/1999	CUTSFORTH PD	3.1	200.0	620	1	199.7	619
Rainbow Trout	072 97	05/07/1999	MCNARY CHANNEL PDS	3.1	968.0	3,001	2	967.4	2,999
Rainbow Trout	072 97	05/07/1999	HAT ROCK PD	3.1	322.0	998	0	322.0	998
Rainbow Trout	072 97	05/07/1999	WESTON HIGHWAY PD	3.1	290.0	899	1	289.7	898
Rainbow Trout	072 97	05/17/1999	HIGHWAY 203 PD	3.2	780.0	2,496	3	779.1	2,493
Rainbow Trout	072 97	05/17/1999	HAINES PD-1	3	333.0	999	0	333.0	999
Rainbow Trout	072 97	05/17/1999	NORTH POWDER PD-1	3	333.0	999	3	332.0	996
Rainbow Trout	072 97	05/18/1999	UMATILLA R	3.3	910.0	3,003	2	909.4	3,001
Rainbow Trout	072 97	06/04/1999	HAT ROCK PD	2.7	371.0	1,002	0	371.0	1,002
Rainbow Trout	072 97	06/08/1999	MCNARY CHANNEL PDS	2.7	1,112.0	3,002	2	1,111.3	3,000
Rainbow Trout	072 97	06/08/1999	TWIN PONDS	2.7	186.0	502	0	186.0	502
Rainbow Trout	072 97	06/08/1999	UMATILLA FOREST PDS	2.7	750.0	2,025	5	748.2	2,020
Rainbow Trout	072 97	06/09/1999	HIGHWAY 203 PD	2.7	560.0	1,512	2	559.3	1,510
Rainbow Trout	072 97	06/09/1999	NORTH POWDER PD-1	2.7	370.0	999	2	369.3	997
Rainbow Trout	072 97	06/09/1999	HAINES PD-1	2.7	370.0	999	1	369.6	998
Rainbow Trout	072 97	06/10/1999	UMATILLA R	2.7	296.0	799	0	296.0	799
Rainbow Trout	072 97	06/21/1999	LOST LK	2.7	369.0	996	4	367.5	992
Rainbow Trout	072 97	06/22/1999	PHILLIPS RES	2.7	370.0	999	0	370.0	999
Rainbow Trout	072 97	06/22/1999	POWDER R-2	2.7	370.0	999	1	369.6	998
Rainbow Trout	072 97	06/25/1999	MCNARY CHANNEL PDS	3	1,000.0	3,000	0	1,000.0	3,000
Rainbow Trout	072 97	06/28/1999	GRANDE RONDE LK	3	660.0	1,980	2	659.3	1,978
Rainbow Trout	072 97	06/28/1999	ANTHONY LK	3	666.0	1,998	0	666.0	1,998
Rainbow Trout	072 97	06/29/1999	PINE CR	3	334.0	1,002	0	334.0	1,002
Rainbow Trout	072 97	06/29/1999	PINE CR, N FK	3	167.0	501	0	167.0	501
Rainbow Trout	072 97	06/29/1999	EAGLE CR, W FK	3	166.0	498	0	166.0	498
Rainbow Trout	072 97	06/29/1999	EAGLE CR	3	500.0	1,500	0	500.0	1,500
Rainbow Trout	072 97	06/30/1999	JUBILEE LK	3	1,000.0	3,000	1	999.7	2,999
Rainbow Trout	072 97	07/01/1999	UMATILLA FOREST PONDS	3	167.0	501	4	165.7	497
Rainbow Trout	072 97	07/13/1999	EAGLE CR	2.8	536.0	1,501	3	534.9	1,498
Rainbow Trout	072 97	07/13/1999	EAGLE CR, W FK	2.8	179.0	501	0	179.0	501
Rainbow Trout	072 97	07/14/1999	PINE CR, N FK	2.8	180.0	504	0	180.0	504
Rainbow Trout	072 97	07/14/1999	PINE CR	2.8	360.0	1,008	0	360.0	1,008
Rainbow Trout	072 97	07/16/1999	JUBILEE LK	2.8	1,250.0	3,500	2	1,249.3	3,498
Rainbow Trout	072 97	07/21/1999	ANTHONY LK	1.2	209.0	251	0	209.0	251
Rainbow Trout	072 97	07/21/1999	GRANDE RONDE LK	1.2	209.0	251	0	209.0	251

Stocking Records for Irrigon Fish Hatchery, October 1, 1998
through September 30, 1999

Species	Lot	Date	Waterbody	No/		Pounds		Number	Morts	Pounds		Number
				Lb	Lb	Loaded	Loaded			Stocked	Stocked	
Rainbow Trout	072 97	07/21/1999	ANTHONY LK	2.6	577.0	1,500	1	576.6	1	576.6	1,499	
Rainbow Trout	072 97	07/21/1999	GRANDE RONDE LK	2.6	385.0	1,001	1	384.6	1	384.6	1,000	
Rainbow Trout	072 97	07/28/1999	POWDER R-2	1.2	250.0	300	3	247.5	3	247.5	297	
Rainbow Trout	072 97	07/28/1999	POWDER R-2	2.6	385.0	1,001	3	383.9	3	383.9	998	
Rainbow Trout	072 97	07/28/1999	PHILLIPS RES	2.6	770.0	2,002	2	769.2	2	769.2	2,000	
Rainbow Trout	072 97	07/28/1999	EAGLE CR	1.2	450.0	540	0	450.0	0	450.0	540	
Rainbow Trout	072 97	07/28/1999	EAGLE CR	2.6	385.0	1,001	0	385.0	0	385.0	1,001	
Rainbow Trout	072 97	07/28/1999	EAGLE CR, W FK	1.2	50.0	60	1	49.2	1	49.2	59	
Rainbow Trout	072 97	07/28/1999	EAGLE CR, W FK	2.6	193.0	502	1	192.6	1	192.6	501	
Rainbow Trout	072 97	07/29/1999	MCNARY CHANNEL PDS	1.2	667.0	800	0	667.0	0	667.0	800	
Rainbow Trout	072 97	07/29/1999	TWIN LKS	1.2	84.0	101	0	84.0	0	84.0	101	
Rainbow Trout	072 97	07/29/1999	TWIN LKS	2.6	193.0	502	1	192.6	1	192.6	501	
Rainbow Trout	072 97	07/29/1999	PINE CR	1.2	84.0	101	0	84.0	0	84.0	101	
Rainbow Trout	072 97	07/29/1999	PINE CR	2.6	385.0	1,001	0	385.0	0	385.0	1,001	
Rainbow Trout	072 97	08/04/1999	GRANDE RONDE LK	2.7	330.0	891	0	330.0	0	330.0	891	
Rainbow Trout	072 97	08/04/1999	GRANDE RONDE LK	1.1	235.0	259	1	234.1	1	234.1	258	
Rainbow Trout	072 97	08/04/1999	ANTHONY LK	1.1	235.0	259	2	233.2	2	233.2	257	
Rainbow Trout	072 97	08/04/1999	ANTHONY LK	2.7	495.0	1,337	2	494.3	2	494.3	1,335	
Rainbow Trout	072 97	08/20/1999	ANTHONY LK	1	615.0	615	6	609.0	6	609.0	609	
Rainbow Trout	072 97	08/20/1999	GRANDE RONDE LK	1	510.0	510	5	505.0	5	505.0	505	
Rainbow Trout	072 97	08/27/1999	MORGAN LK	0.9	525.0	473	0	525.0	0	525.0	473	
Rainbow Trout	072 97	08/27/1999	MAC PD	0.9	223.0	201	1	221.9	1	221.9	200	
Rainbow Trout	072 98	06/07/1999	BURNT R, S FK	2.7	370.4	1,000	1	370.0	1	370.0	999	
Rainbow Trout	072 98	06/07/1999	HARDY MURRAY RES	2.7	740.7	2,000	0	740.7	0	740.7	2,000	
Steelhead	029 98	11/04/1998	BIG SHEEP CR	59	85.0	5,015	0	85.0	0	85.0	5,015	
Steelhead	029 99	09/09/1999	BIG SHEEP CR	125	760.0	95,000	5000	720.0	5000	720.0	90,000	
Steelhead	029 99	09/10/1999	SHEEP CR, L	125	480.0	60,000	10	479.9	10	479.9	59,990	
Steelhead	056 98	04/06/1999	GRANDE RONDE R-2	5	900.0	4,500	0	900.0	0	900.0	4,500	
Steelhead	056 98	04/06/1999	GRANDE RONDE R-2	5	3,700.0	18,500	5	3,699.0	5	3,699.0	18,495	
Steelhead	056 98	04/07/1999	GRANDE RONDE R-2	5	3,530.0	17,650	20	3,526.0	20	3,526.0	17,630	
Steelhead	056 98	04/07/1999	GRANDE RONDE R-2	4.7	2,275.0	10,693	10	2,272.9	10	2,272.9	10,683	
Steelhead	056 98	04/07/1999	GRANDE RONDE R-2	5.3	2,700.0	14,310	0	2,700.0	0	2,700.0	14,310	
Steelhead	056 98	04/07/1999	GRANDE RONDE R-2	5.3	1,410.0	7,473	2	1,409.6	2	1,409.6	7,471	
Steelhead	056 98	04/07/1999	GRANDE RONDE R-2	4.7	4,390.0	20,633	3	4,389.4	3	4,389.4	20,630	
Steelhead	056 98	04/07/1999	GRANDE RONDE R-2	4.7	3,705.0	17,414	1	3,704.8	1	3,704.8	17,413	
Steelhead	056 98	04/07/1999	GRANDE RONDE R-2	5.3	2,993.0	15,863	0	2,993.0	0	2,993.0	15,863	
Steelhead	056 98	05/07/1999	DEER CREEK	4.5	178.0	801	1	177.8	1	177.8	800	