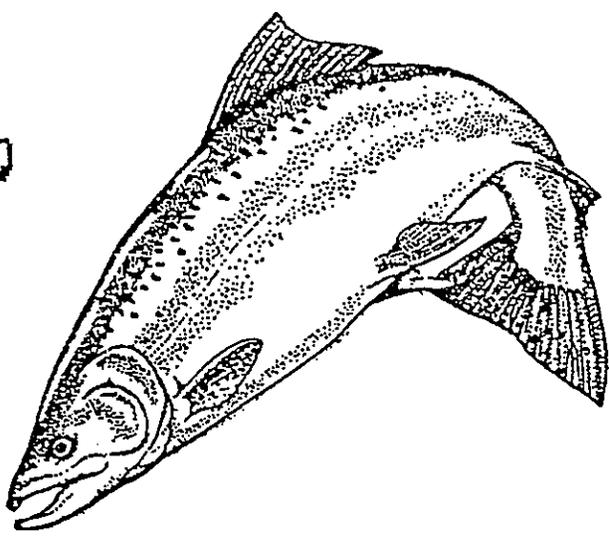
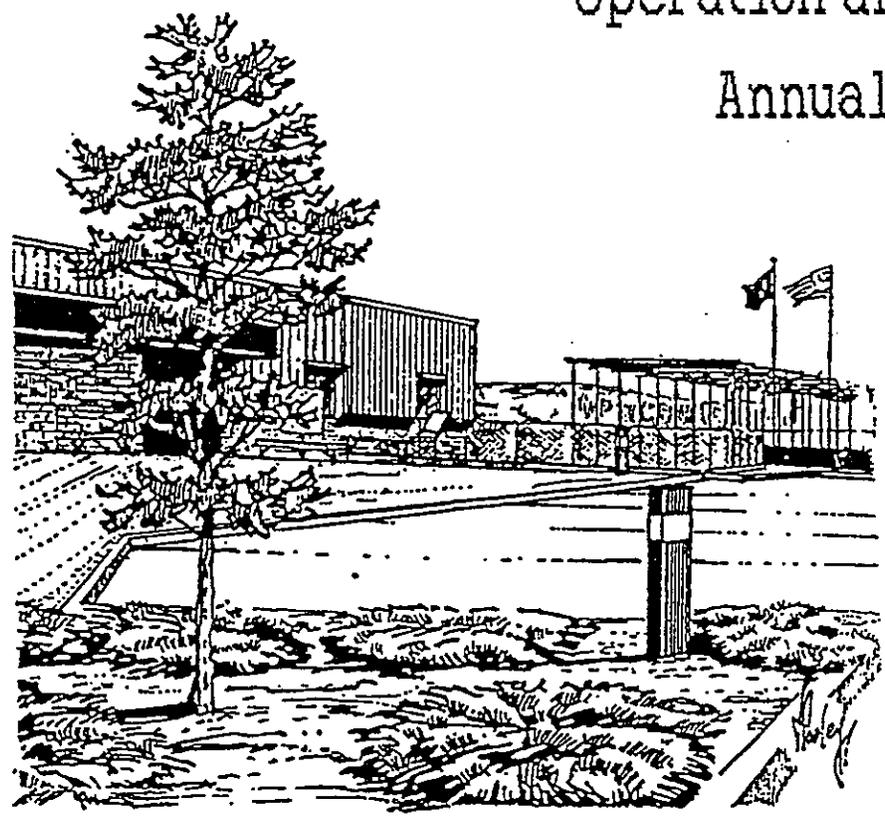


98AR

IRRIGON FISH HATCHERY



Operation and Maintenance
Annual Report



IRRIGON FISH HATCHERY

INTRODUCTION

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 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 Cape Cod stock rainbow trout.

STEELHEAD

Imnaha Stock

BY97: Production was completed on April 30, 1998, with the transfer of 117,219 Imnaha stock (2997) steelhead smolts to Little Sheep Creek Facility for acclimation. All smolts were adipose finclipped, and 82,189 were coded-wire tagged and identified with a left ventral finclip. Production goals to maintain a 5% minimum wild fish ratio in the broodstock were not met.

BY98: In May and June of 1998, the hatchery received 392,150 Imnaha stock (2998) eyed eggs from Wallowa Fish Hatchery. The 364,399 resulting fingerlings were on hand September 30, 1998.

Wallowa Stock

BY97: Rearing was completed on April 22, 1998, with the transfer and release of 1,388,436 Wallowa stock (5697) steelhead smolts. All smolts had adipose fins removed. In addition, 216,040 smolts were coded-wire tagged and left ventral finclipped. The 308,165 grade-outs were excess to production goals and were destroyed November 3, 1997.

BY98: Production began with the transfer of 1,896,862 eyed Wallowa stock (5698) steelhead eggs from Wallowa Fish Hatchery in the spring of 1998. Of these, 127,641 were excess to program needs and were destroyed. Steelhead on hand September 30, 1998 numbered 1,660,107.

CHINOOK

Rapid River Stock

BY97: Initial rearing of Rapid River stock (8597) spring chinook was completed with the transfer of 295,776 fingerlings to Lookingglass Fish Hatchery on April 17, 1998.

BY98: This year, adult Rapid River stock (8598) spring chinook were held at South Fork Walla Walla Facility. During August and September, the hatchery crew spawned and brought 71,712 green eggs back to Irrigon Fish Hatchery for incubation and early rearing.

RAINBOW TROUT

Cape Cod Stock

During the reporting period, Irrigon Fish Hatchery received 73,340 legal rainbow trout from Fall River Hatchery. This provided 69,695 legal rainbow trout that were stocked late spring and summer of 1998.

CONSTRUCTION AND MAINTENANCE

- Installed air-cooled walk-in freezer to replace the worn water-cooled unit.
- Constructed and installed new HDPE flush gates on all rearing ponds.
- Pulled two pumps, which were repaired by contractor, in the Rainey collectors.
- Expanded underground sprinkler system to cover all lawn areas.
- Completed hatchery host site; three different volunteers helped at the hatchery during summer 1998.
- Corrected safety hazards identified during USFWS safety inspection.
- Installed cable concentrators to prevent false alarms.
- Cut pen board into lengths to try aluminum stop logs in some of the rearing ponds.
- Local contractor sealed the cracks in the pavement around the buildings and ponds.

MAJOR PURCHASES

Flush gate material	1,500.00
Pump repair	8,300.00
Pen board	1,400.00
Underground sprinklers	3,000.00
Bird predation netting	1,000.00
Crack sealing	2,400.00
Feeder air compressor	1,400.00
Replacement ranges - 6 residences	4,500.00
<u>Replacement vinyl flooring - 4 residences</u>	<u>4,900.00</u>
Total	\$28,400.00

Smolts Reared

Steelhead**Wallowa Stock BY97**

Number of smolts produced:	262,465
Weight of smolts produced (lbs.):	55,311.36
Percent mortality to stocking:	19.9%
Average number/pound of smolts produced:	4.75
Conversion rate:	1.08

Legals Reared (Rainbow Trout)

Rainbow Trout**Cape Cod Stock BY96**

Number legals produced:	69,695
Weight of legals produced (lbs.):	24,624.80
Percent mortality to stocking:	1.6%
Average number/pound of legals produced:	2.83
Conversion rate:	2.05

Food Fed and Weight Gain

Steelhead Wallowa Stock BY97

Irrigon Fish Hatchery	
Total pounds of food fed	292,717
Conversion rate	1.08
Total weight gain (lbs) - all sizes produced	271,669

Steelhead Wallowa Stock BY98

Irrigon Fish Hatchery	
Total pounds of food fed	29,279
Conversion rate	0.96
Total weight gain (lbs) - all sizes produced	30,375

Steelhead Imnaha Stock BY97

Irrigon Fish Hatchery	
Total pounds of food fed	28,870
Conversion rate	1.24
Total weight gain (lbs) - all sizes produced	23,224

Chinook Rapid River Stock BY97

Irrigon Fish Hatchery	
Total pounds of food fed	1,346
Conversion rate - total for all stages	1.14
Total weight gain (lbs) - all sizes produced	1,180

Food Fed and Weight Gain

Rainbow Trout
Cape Cod Stock BY96

Irrigon Fish Hatchery	
Total pounds of food fed	7,305
Conversion rate	2.05
Total weight gain (lbs) - all sizes produced	3,569.47

FY98 Stocking

Total number of distribution trips:	110*
Number of fry stocked	0
Weight of fry stocked:	0 lbs
Number of fingerlings stocked:	0
Weight of fingerlings stocked:	0 lbs
Number of smolts stocked:	262,465
Weight of smolts stocked:	55,311.36 lbs
Number of legal trout stocked:	69,695
Weight of legal trout stocked:	24,624.80 lbs
Date, location, number and weight at each stocking:	See Attached

**Approximately 70 trips were used for hauling steelhead to Big Canyon, Little Sheep Creek or Wallowa Fish Hatchery for acclimation.*

FY98 IRRIGON FISH HATCHERY LIBERATION RECORD

SPECIES	STOCK NAME	BROOD		LOCATION	NUMBER	POUNDS
		YEAR	DATE		STOCKED	STOCKED
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	5/21/98	CAVENDER RES	2,492	859.24
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	5/26/98	HAINES PD-1	1,001	345
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	5/26/98	HIGHWAY 203 PD	1,000	344.66
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	5/26/98	NORTH POWDER PD-1	1,000	344.66
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	6/4/98	ANSON WRIGHT PD	1,000	312.5
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	6/4/98	UMATILLA FOREST PDS	2,370	948
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	6/4/98	UMATILLA FOREST PDS	125	39
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	6/5/98	HAT ROCK PD	500	156.25
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	6/5/98	M McNARY CHANNEL PDS	3,001	937.81
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	6/5/98	UMATILLA R	95	31.6
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	6/5/98	UMATILLA R	3,001	937.81
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	6/8/98	UMATILLA FOREST PDS	501	156.6
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	6/10/98	LOST LK	1,000	312.4
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	6/11/98	BURNT R, S FK	975	304.69
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	6/11/98	HARDY MURRAY RES	1,995	623.44
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	6/11/98	HIGHWAY 203 PD	1,997	624.06
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	6/15/98	UMATILLA R	1,501	469
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	6/16/98	JUBILEE LK	2,998	936.75
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	6/16/98	LANGDON LK	749	234
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	6/30/98	ANTHONY LK	1,999	714
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	6/30/98	DUCK LK	495	176.86
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	6/30/98	GRANDE RONDE LK	1,002	358
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	6/30/98	M McNARY CHANNEL PDS	2,997	1070.29
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	6/30/98	PINE CR	1,500	535.64
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	6/30/98	PINE CR, N FK	500	178.64
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	7/1/98	CRACKER CR	995	355.21
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	7/1/98	POWDER R-2	651	232.43
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	7/1/98	POWDER R-2	833	297.5
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	7/2/98	EAGLE CR	1,990	710.71
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	7/2/98	EAGLE CR, W FK	499	178.21
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	7/16/98	PINE CR	1,502	518
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	7/16/98	PINE CR, N FK	499	171.97
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	7/21/98	CRACKER CR	996	343.28
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	7/21/98	POWDER R-2	1,497	516.31
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	7/22/98	ANTHONY LK	2,490	858.55
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	7/22/98	GRANDE RONDE LK	1,505	518.97
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	7/29/98	PINE CR	997	369.26
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	7/29/98	PINE CR, N FK	500	185.1
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	7/30/98	EAGLE CR	1,993	738.15
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	7/30/98	EAGLE CR, W FK	502	186
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	8/4/98	ANTHONY LK	499	192
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	8/4/98	GRANDE RONDE LK	1,000	384.62
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	8/4/98	JUBILEE LK	4,020	1546.15
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	8/5/98	CRACKER CR	1,001	385
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	8/5/98	POWDER R-2	1,498	576.23
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	8/13/98	ANTHONY LK	753	289.62
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	8/13/98	EAGLE CR	1,497	575.85
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	8/13/98	EAGLE CR, W FK	499	192
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	8/13/98	GRANDE RONDE LK	498	191.62
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	8/19/98	M McNARY CHANNEL PDS	3,997	1665.33
RAINBOW TROUT	CAPE COD RAINBOW TROUT	96	8/20/98	PHILLIPS RES	1,190	495.83
SUMMER STEELHEAD	WALLOWA RIVER	97	4/6/98	GRANDE RONDE R-2	24,740	5497.78
SUMMER STEELHEAD	WALLOWA RIVER	97	4/6/98	GRANDE RONDE R-2	17,327	3609.79
SUMMER STEELHEAD	WALLOWA RIVER	97	4/6/98	GRANDE RONDE R-2	24,740	5497.78
SUMMER STEELHEAD	WALLOWA RIVER	97	4/7/98	GRANDE RONDE R-2	12,000	2500
SUMMER STEELHEAD	WALLOWA RIVER	97	4/7/98	GRANDE RONDE R-2	3,920	800
SUMMER STEELHEAD	WALLOWA RIVER	97	4/7/98	GRANDE RONDE R-2	8,686	1809.58
SUMMER STEELHEAD	WALLOWA RIVER	97	4/7/98	GRANDE RONDE R-2	19,627	4088.96
SUMMER STEELHEAD	WALLOWA RIVER	97	4/7/98	GRANDE RONDE R-2	17,784	3705
SUMMER STEELHEAD	WALLOWA RIVER	97	4/7/98	GRANDE RONDE R-2	27,451	5718.96

SUMMER STEELHEAD	WALLOWA RIVER	97	4/8/98	CATHERINE CR	15,510	3300
SUMMER STEELHEAD	WALLOWA RIVER	97	4/8/98	CATHERINE CR	16,745	3562.79
SUMMER STEELHEAD	WALLOWA RIVER	97	4/8/98	CATHERINE CR	9,790	1997.96
SUMMER STEELHEAD	WALLOWA RIVER	97	4/8/98	CATHERINE CR	18,471	3930
SUMMER STEELHEAD	WALLOWA RIVER	97	4/8/98	GRANDE RONDE R-2	29,390	5997.96
SUMMER STEELHEAD	WALLOWA RIVER	97	4/8/98	GRANDE RONDE R-2	12,739	2599.8
SUMMER STEELHEAD	WALLOWA RIVER	97	4/9/98	CATHERINE CR	1,989	390
SUMMER STEELHEAD	WALLOWA RIVER	97	4/9/98	GRANDE RONDE R-2	1,556	305