

INTRODUCTION

Location

Irrigon 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 for release into the Grande Ronde and Imnaha River systems. To meet LSRCP goals, Irrigon Hatchery receives eyed steelhead eggs from Wallowa Hatchery and rears them to release or acclimation. Non LSRCP fish reared in fiscal year 1995 include legal sized rainbow trout.

STEELHEAD

Imnaha Stock

Broodyear 1995: Production was completed on April 30, 1996, with the release of 323,071 Imnaha (2995) steelhead smolts. All smolts had adipose fins removed. In addition, 100,000 Imnaha stock (2995) steelhead smolts were also coded wire tagged and identified with a left ventral clip.

Broodyear 1996: In April, May and June 1996 the hatchery received 558,755 Imnaha stock (2996) eyed eggs from Wallowa Hatchery. Of these, 79,170 Imnaha (2996) eggs excess to program needs were culled and destroyed. The 427,724 resulting fingerlings were on hand September 30, 1996.

Wallowa Stock

Broodyear 1995: Rearing was completed on April 30, 1996, with the release of 1,350,440 Wallowa stock (5695) steelhead smolts. All smolts had adipose fins removed. In addition, 150,000 Wallowa stock (5696) smolts were also coded wire tagged and left ventral clipped. The 12,992 Wallowa (5695) steelhead excess to production goals were destroyed October 17, 1995.

Broodyear 1996: Production began with the transfer of 2,083,785 eyed Wallowa stock (5696) steelhead eggs from Wallowa Hatchery in spring 1996. Of these, 289,000

Wallowa (8596) eggs excess to program needs were culled and destroyed.
Steelehead on hand September 30, 1996, numbered 1,721,257.

CHINOOK

Irrigon Hatchery began incubating Rapid River stock (8596) chinook eggs this report period. From August through October, 1996, Irrigon Hatchery received 400,351 green Rapid River (8596) chinook eggs from Lookingglass Hatchery, of which 20,000 were destroyed due to BKD and 107,445 were shipped to Idaho Department of Fish and Game after eye-up. During the same time period, Irrigon Hatchery received 233,268 green Rapid River (8596) chinook eggs from Wallowa Hatchery, of which 4,000 were destroyed due to BKD and 65,738 were shipped to Idaho Fish and Game after eye-up. The total number of Rapid River (8596) eggs experiencing eye-up at Irrigon Hatchery was 567,183. All chinook eggs received by Irrigon Hatchery are from marked Rapid River (8596) parents.

RAINBOW TROUT

During the reporting period Irrigon Hatchery received 44,000 legal rainbow trout from Fall River Hatchery and 16,403 legal rainbow trout from Oak Springs Hatchery. Of the 60,403 total legal rainbows received, 58,068 were stocked.

CONSTRUCTION AND MAINTENANCE

No capital construction projects were completed at Irrigon Hatchery in fiscal year 1996.

-Contractor pulled #3 pump in Rainey collector #1; repaired all bearings and replaced stuffing box; reset pump.

-Installed oxygen supplementation system. This system is not yet working to specifications, and tests are continuing.

-USFWS (Umatilla National Wildlife Refuge) has done some preliminary work to place the refuge supply line in service.

MAJOR PURCHASES

| | |
|----------------------------|------------------|
| LOX tank | \$1,774.20 |
| Sand filter | \$1,430.00 |
| Dishwashers (5 residences) | \$2,135.00 |
| Land water jet | \$1,446.00 |
| Strobes and controls | \$ 570.60 |
| Striping pavement | <u>\$ 777.00</u> |
| Total | \$8,132.80 |

**IRRIGON HATCHERY
STEELHEAD PONDING RECORD
IMNAHA 2996**

| Date received | Number of eyed eggs | Date ponded | Number ponded | Fry loss |
|---------------|---------------------|------------------|----------------|---------------|
| 4/22/96 | 248,520 | 06/08/96 | 176,686 | 71,854* |
| 5/13/96 | 262,715 | 06/08/96 | 247,073 | 15,642* |
| 5/31/96 | 25,700 | 06/24/96 | 25,282 | 418 |
| 5/31/96 | 10,050 | 06/27/96 | 9,996 | 54 |
| 6/07/96 | 11,770 | 06/30/96 | 11,842 | 128 |
| Total | 558,755 | 6/08-6/30 | 470,659 | 88,096 |

*A total of 79,170 fry were destroyed as excess to program (68,510 received on 4/22 and 10,660 received on 5/13).

**IRRIGON HATCHERY
STEELHEAD PONDING RECORD
WALLOWA 5696**

| Date received | Number of eyed eggs | Date ponded | Number ponded | Fry loss |
|---------------|---------------------|------------------|------------------|----------------|
| 4/12/96 | 837,500 | 6/06/96 | 627,118 | 210,382 |
| 5/03/96 | 800,000 | 6/06/96 | 711,902 | 88,098 |
| 5/24/96 | 399,295 | 6/16/96 | 385,900 | 13,395 |
| 5/31/96 | 35,400 | 6/24/96 | 35,031 | 369 |
| 5/31/96 | 11,590 | 6/30/96 | 11,335 | 255 |
| Total | 2,083,785 | 6/06-6/30 | 1,771,286 | 312,499 |

*A total of 289,000 fry were destroyed as excess to program (199,000 received on 4/12; 80,000 received on 5/31; and 10,000 received on 5/24/96).

**STEELHEAD SMOLTS
OUTGOING TO ACCLIMATION FACILITIES, 1996
IRRIGON HATCHERY**

| Destination and stock | Big Canyon (Stock 5695) | Wallowa Acc Pd (Stock 5695) | Little Sheep (Stock 2995) |
|-----------------------------------------|----------------------------|--------------------------------|------------------------------|
| Total distribution trips to destination | 25 | 24 | 11 |
| Number of smolts transferred | 374,846 | 662,149 | 289,505 |
| Pounds of smolts transferred | 74,198 | 123,221 | 45,325 |
| Average no/lb of smolts | 5.05 | 5.37 | 5.95 |
| Hauling mortality from Irrigon | 246 | 84 | 45 |

**STEELHEAD SMOLTS
1996 DIRECT STREAM RELEASES
IRRIGON HATCHERY**

| | Innaha Stock (2995) | Wallowa Stock (5695) |
|---------------------------------|---------------------|----------------------|
| Number of distribution trips | 2 | 14 |
| Number of smolts stocked | 53,566 | 313,445 |
| Weight of smolts stocked (lbs) | 10,608 | 58,941 |
| Average no/lb of smolts stocked | 5.05 | 5.23 |
| Hauling mortality from Irrigon | 0 | 0 |

**IRRIGON HATCHERY
STEELHEAD ON HAND SEPTEMBER 30, 1996**

| | Innaha Stock (2996) | Wallowa Stock (5696) |
|----------------------------|---------------------|----------------------|
| Steelhead on hand | 470,659 | 1,771,286 |
| Weight of steelhead in lbs | 189 | 828 |
| Average no/lb of steelhead | 2,490 | 2,829 |
| Conversion rate | 1.23 | 1.13 |

**IRRIGON HATCHERY
CHINOOK EGG RECORD
RAPID RIVER 8596**

| Date & hatchery received from | Number of green eggs | Date of eye-up | Number of eyed eggs | Egg loss | Shipped to IDFG |
|-------------------------------|----------------------|-----------------|---------------------|---------------|-----------------|
| 8/20/96 Lookingglass | 4,000 | N/A | 0 | 4,000* | 0 |
| 8/27/96 Lookingglass | 10,672 | 10/31/96 | 6,364 | 10,672 | 0 |
| 9/03/96 Lookingglass | 149,196 | 10/31/96 | 133,824 | 15,372* | 27,293 |
| 9/10/96 Lookingglass | 191,065 | 10/31/96 | 186,376 | 4,709 | 68,144 |
| 9/17/96 Lookingglass | 38,753 | 10/31/96 | 37,264 | 1,489 | 14,008 |
| 9/24/96 Lookingglass | 6,645 | 10/31/96 | 5,529 | 1,116 | 0 |
| <hr/> | | | | | |
| 8/28/96 Wallowa | 13,141 | 10/31/96 | 9,843 | 3,298 | 0 |
| 9/04/96 Wallowa | 114,474 | 10/31/96 | 100,790 | 13,684 | 31,040 |
| 9/11/96 Wallowa | 105,653 | 10/31/96 | 87,173 | 18,480* | 34,695 |
| <hr/> | | | | | |
| Total | 633,529 | 10/31/96 | 567,183 | 72,820 | 173,183 |

*A total of 20,000 eggs were destroyed due to high BKD (4,000 received on 8/20; 4,000 received on 8/27; 8,000 received 10/25; and 4,000 received on 9/11/96).

**IRRIGON HATCHERY RAINBOW TROUT
RECEIVED AND RELEASED AS LEGALS, 1996**

| | Cape Cod Stock (7294) |
|----------------------------------|-----------------------|
| Number of legals received* | 60,403 |
| Weight of legals received in lbs | 16,498 |
| Number of legals stocked | 58,068 |
| Weight of legals stocked in lbs | 19,992 |
| Average no/lb of legals | 2.90 |
| Conversion rate at Irrigon | 1.19 |

*Rainbow trout received: 44,000 from Fall River Hatchery and 16,403 from Oak Springs Hatchery.

**IRRIGON HATCHERY RAINBOW TROUT
FOOD FED AND WEIGHT GAINED**

| | Cape Cod Stock (7294) |
|-------------------|-----------------------|
| Period fed | 5/96 - 7/96 |
| Food fed (lbs) | 4,150 |
| Weight gain (lbs) | 3,494 |
| Conversion | 1.19 |