

WALLOWA FISH HATCHERY
October 1, 1998 - September 30, 1999

INTRODUCTION

Location

Wallowa Fish Hatchery is located in Wallowa County, Oregon, approximately 324 miles upstream from the mouth of the Columbia River. The hatchery is located at river mile 1.0 on Spring Creek, 81 miles upstream from the mouth of the Grande Ronde River and 39 miles upstream from the mouth of the Wallowa River. Wallowa acclimation pond is also located at the hatchery site. Two satellite stations, Big Canyon Facility (Wallowa system) and Little Sheep Creek Facility (Imnaha system), are used for adult trapping, spawning and smolt acclimation.

OBJECTIVES

Mitigation Goals

Wallowa Fish Hatchery is operated as part of the Lower Snake River Compensation Program. Mitigation goals include collection of 1,343,000 total eggs for Wallowa stock (5699), and 430,000 Imnaha stock (2999) eggs. The revised smolt goal for the Wallowa stock is currently 870,000 smolts. The Imnaha stock smolt goal has remained at 330,000 smolts.

Non LSRCP fish reared for released from Wallowa Fish Hatchery include Cape Cod stock legal and "trophy" size rainbow trout.

STEELHEAD

Adult Returns

Adult (5699) steelhead returning to Wallowa Fish Hatchery numbered 531 males and 637 females for a total of 1,168, compared to a total of 1,374 in 1998. Adult (5699) hatchery steelhead returns to Big Canyon Facility numbered 171 males and 391 females, totaling 562 steelhead, down significantly from 1,190 in 1998 and 1,233 in 1997. Adult wild fish returning to Big Canyon Facility were as follows: 14 males and 25 females, for a total of 39 wild fish, down slightly from 46 in 1998 and 44 in 1997. Imnaha stock (2999) hatchery adults returning to Little Sheep Creek Facility numbered 158 males and 174 females, for a total of 332, a considerable decrease from the total return of 686 in 1998 and 937 in 1997. Adult wild fish returning to Little Sheep Creek Facility were as follows: 5 males and 6 females for a total of 11 wild fish, again down substantially from 33 wild fish in 1998 and 29 wild fish in 1997.

Egg Production Imnaha Stock

This past season all Imnaha stock eggs were shipped to Irrigon Fish Hatchery to meet production goals and ensure spawn timing was appropriately represented. The disposition of eggs in excess of production needs was negotiated between the Nez Perce Tribe and ODFW. The total number of Imnaha stock (2999) steelhead eggs taken was 606,740. Egg loss was 14.9%, down slightly from last year's 17% egg loss. We transferred a total of 516,190 eyed eggs to Irrigon Hatchery.

Egg Production Wallowa Stock

A total of 2,482,381 Wallowa stock (5699) steelhead eggs were taken during the spawning season and 1,310,000 eyed eggs were shipped to Irrigon Fish Hatchery. Egg loss was 9.7% for the season, equivalent to last year's 9.9% loss. Program excess of 930,750 was dispatched prior to shipment to Irrigon Fish Hatchery.

Acclimation

A total of 334,672 (2998) steelhead smolts were acclimated and released from Little Sheep Creek Facility. Wallowa stock (5698) steelhead smolts acclimated and released from Big Canyon Facility numbered 450,145. A total of 800,312 Wallowa stock (5698) steelhead smolts were acclimated and released from Wallowa Acclimation Facility; of these, 138,417 were previously scheduled for direct stream releases into the Catherine Creek and Grande Ronde River systems. A total of 2,573 Big Canyon potential residual steelhead were released into Kinney Lake. All steelhead acclimated and released from the above facilities were reared at Irrigon Fish Hatchery. Transfer of steelhead from Irrigon Fish Hatchery began in late February (Wallowa Acclimation Facility) and early March (Big Canyon and Little Sheep Creek facilities).

CHINOOK

No chinook were held this year at Wallowa Fish Hatchery.

RAINBOW

This year's trout production consisted of rearing and liberating two different brood years of the Cape Cod (7200) stock rainbow trout. We retained 6,352 of the (7296) rainbow from the previous year's production for implementation of a "trophy trout" program. Release size for the trophy trout ranged between 1 ½ pounds to 3 pounds each. We released 5,675 of these beauties in FY1999. We received a total of 89,174 (7297) rainbow from Klamath Hatchery in September and October, 1998. Of the 89,174 trout received from Klamath, 10,595 were liberated into Kinney Lake as grade-outs and

66,231 were released throughout the season as “legals”. The remaining 6,886 (7297) rainbow were retained for the 1999-2000 trophy program.

KELT PROJECT

The ODFW Northeast Region Research staff initiated the kelt reconditioning project in 1998. The project's short-term goal is to discover if wild steelhead can be kept alive and conditioned to eat a special production salmon diet. The long-term goal is to incorporate the gametes of wild steelhead back into future broods. Two male hatchery kelts were reconditioned last year. One succumbed to bacterial kidney disease just prior to the 1999 spawning season, but the other male was successfully spawned. Sampling completed by research personnel revealed a 93.7% fertility rate for this fish. Based on our experiences from last year's attempt we hired a dedicated kelt technician to care for these fish, as the reconditioning process is quite long and labor intensive. We attained greater survival this year and added considerably to the body of knowledge necessary to successfully recondition these fish. Wild fish were used exclusively in 1999, and of the 11 fish taken for this project, five have survived: four females and one male. The success of the project led to significantly more work than originally anticipated. Kelt reconditioning necessitated a full time person to be properly implemented, and will continue to demand this level of staffing into the foreseeable future.

CONSTRUCTION AND MAINTENANCE

There were no capital construction projects at Wallowa Fish Hatchery or its satellite facilities during the report period.

Maintenance projects accomplished by the hatchery crew

Wallowa Fish Hatchery Complex

- Built new fingerling screens for our adult holding pond in anticipation of receiving the emergency transfer of chinook from Lookingglass Hatchery due to a well pump failure at that facility.
- All hatchery staff were requisitioned from other projects and spent numerous hours modifying plumbing, tanks, screens and the alarm system in the old hatch building in expectation of holding the Lookingglass fish.
- Researched and inspected date sensitive equipment and all operating systems at the hatchery for Y2K preparation.
- Attended to some much-needed repairs at both hatchery residences. The crew replaced old plumbing and remodeled the bathrooms in both houses.
- Installed new booster pumps for the incubation room and had the old pumps rebuilt for back up purposes.

Big Canyon Facility

- Installed a new sewage lift pump and modified the mounting hardware to facilitate ease of future replacement.
- The facility was inspected and all relative machinery and systems examined for date sensitive embedded chips relative to Y2K documentation.
- We fabricated a lower step for the upper fish ladder to enhance small fish passage; however, a large boulder prevented the final installation of the frame. The framework is being modified and will be completed and installed shortly.
- The crew re-built ¼ of the acclimation pond screen frames.
- Installed new grip strut between the acclimation and adult holding pond. The previous configuration was a safety issue.

Little Sheep Creek Facility

- The facility was inspected and all relative machinery and systems examined for date sensitive embedded chips relative to Y2K documentation.
- Built a three-sided cedar fence, to frame the facilities ADA portable restroom. This will prevent the unit from blowing over during high winds again, and enhance the aesthetes of the site.
- Modified flush gates to facilitate ease of use and safer operation.
- Installed new shelving to better organize the limited storage space at the facility.

Maintenance projects accomplished by contractors*Wallowa Fish Hatchery Complex*

- The cement retaining wall adjacent to the old hatch house facing spring creek was repaired. A significant portion of the wall had broken off compromising a large section of the old hatch house during high water events. Approximately 38 feet of new wall was poured and braced to complete the repair.
- Two severe windstorms damaged the roofs of both hatchery residences. Roof contractors installed a new roof on the foreman's residence and re-shingled the damaged section of the manager's residence. Hatchery personnel removed the shingles on both roofs and laid felt to aid in reducing the cost of the job and to assist in preparing the roof for contractors.

- We had a radio communications company service and update the radio alarm system at Wallowa Fish Hatchery
- The hatchery dump truck was serviced by the Oregon Dept. of Transportation shop so it would comply with current CDL standards.
- Serviced the heating system as part of our annual maintenance program.

Big Canyon Facility

- Corrected problems with the inside and outside alarm enunciation system.
- Had sewage lift pump wired by contractor.
- Serviced the heating system as part of our annual maintenance program.

Little Sheep Creek Facility

- Repaired non-functioning aspects of the alarm system.
- Serviced the heating system as part of our annual maintenance program.

MAJOR PURCHASES

E-4200 Gateway Computer	\$1,901.00
Chemical Pump (Kelt Program)	\$ 395.91
Chemical Storage Safety Containers (Kelt Program)	\$ 738.65
Washer & Dryer for Big Canyon	\$ 899.99
Sewage Pump @ Big Canyon	\$ 616.54
Incubation & Kelt tank valves and plumbing	\$2,487.04
Seines	\$ 580.48
Wallowa Alarm System Module	\$ 352.65
Downloadable Temperature Monitoring System (Incubation Rm. & Satellite facilities)	\$ 899.00
Total	<u>\$8,871.26</u>

MAJOR REPAIRS

Dump Truck	\$2,961.45
Alarm System @ Big Canyon & Little Sheep Creek	\$1,624.05
Rebuild Booster Pumps (Wallowa Fish Hatchery)	\$1,141.07
Replaced bagger motor on mower	\$ 729.85
Total	<u>\$6,456.42</u>

Adult Returns to Hatchery

Steelhead Wallowa Stock BY99

Big Canyon Facility	
Date of first return:	March 1, 1999
Date of last return:	May 27, 1999
Number of females returning:	416
Number of males returning:	185
Date of peak returns:	March 22, 1999
Number of females released to spawn naturally:	14
Number of males released to spawn naturally:	25
Mortality of all adult returns:	7 females; 8 males

Wallowa Fish Hatchery	
Date of first return:	February 24, 1999
Date of last return:	June 9, 1999
Number of females returning:	637
Number of males returning:	531
Date of peak returns:	March 24, 1999
Number of females released to spawn naturally:	0
Number of males released to spawn naturally:	0
Mortality of all adult returns:	4 females; 1 male

Steelhead Imnaha Stock BY99

Little Sheep Creek Facility	
Date of first return:	March 18, 1999
Date of last return:	May 24, 1999
Number of females returning:	180
Number of males returning:	163
Date of peak returns:	March 25 and April 19, 1999
Number of females released to spawn naturally:	53*
Number of males released to spawn naturally:	69**
Mortality of all adult returns:	0 females; 2 males

*Of these, 36 were released to Little Sheep Creek and 17 were released to Big Sheep Creek.

**Of these, 44 were released to Little Sheep Creek and 25 were released to Big Sheep Creek.

Spawning Record

Steelhead Wallowa Stock BY99

Wallowa Fish Hatchery

Date Spawned	Number of Eggs Taken	Females Spawned	Males Spawned
3/24/99	433,796	78	78
3/31/99	627,100	120	120
4/07/99	413,900	83	82
4/14/99	353,215	72	72
4/21/99	229,700	48	48
4/28/99	179,900	37	25
5/05/99	111,520	24	24
5/12/99	82,100	18	14
5/19/99	28,200	6	6
5/25/99	22,950	5	1

Total number of females spawned:	491
Total number of males spawned:	470
Total number of green eggs:	2,482,381
Total number of eyed eggs:	2,241,150
Number of eggs retained for rearing:	0*
Number of eggs shipped:	1,310,000
Date of last spawning:	5/25/99

**Eyed eggs are shipped to Irrigon Fish Hatchery for rearing.*

Spawning Record

Steelhead Imnaha Stock BY99

Little Sheep Creek Facility

Date Spawned	Number of Eggs Taken	Females Spawned	Males Spawned
3/30/99	13,590	3	3
4/06/99	29,030	6	6
4/13/99	82,160	19	18
4/20/99	109,930	21	21
4/27/99	236,650	48	32
5/04/99	46,390	11	11
5/11/99	45,000	9	9
5/18/99	26,740	6	5
5/25/99	9,440	2	4
6/07/99	7,810	2	3

Total number of females spawned: 127
 Total number of males spawned: 112 (*32 live-spawned; some used > once*)
 Total number of green eggs: 606,740
 Total number of eyed eggs: 516,190
 Number of eggs retained for rearing: 0*
 Number of eggs shipped: 516,190
 Date of last spawning: 6/07/99

**Water-hardened eggs are taken to Wallowa Fish Hatchery for eye-up; eyed eggs are shipped to Irrigon Fish Hatchery for rearing.*

Rearing to Fingerling Stage Only

Rainbow Trout Cape Cod Stock	BY97	BY98
Number of fingerlings produced:	10,595	31,150
Weight of fingerlings produced (lbs.):	399.81	155.75
Percent mortality to stocking:	N/A*	N/A**
Average number/pound of fingerlings produced:	26.50	200.00
Conversion rate:	N/A*	N/A**

*Fish transferred into hatchery 23 days prior to liberation on 10/21/98.

**Fish transferred into hatchery six days prior to liberation on 8/16/99.

Smolts Reared

Steelhead Wallowa Stock BY98	
Number of smolts produced:	1,250,457*
Weight of smolts produced (lbs.):	265,545.68
Percent mortality from possession to stocking:	7.97%
Average number/pound of smolts produced:	4.71
Conversion rate:	1.48**

*Irrigon Fish Hatchery reared 1,260,498 smolts weighing 246,399.24 pounds for this program.

These steelhead were transferred to Big Canyon Facility or Wallowa Acclimation Pond in time for acclimation and release. Pounds actually produced at Wallowa facilities totaled 19,146.44.

**1.48 for Wallowa Acclimation Facility; 1.49 for Big Canyon Facility.

Steelhead Imnaha Stock BY98	
Number smolts produced:	334,672*
Weight of smolts produced (lbs.):	67,242.00
Percent mortality from possession to stocking:	0.30%
Average number/pound of smolts produced:	4.98
Conversion rate:	3.40

*Irrigon Fish Hatchery reared 335,671 smolts weighing 61,749.56 pounds for this program.

These steelhead were transferred to Little Sheep Creek Facility in time for acclimation and release. Pounds actually produced at Wallowa facilities totaled 5,492.44.

Legals Reared (Rainbow Trout)

Rainbow Trout

Cape Cod Stock BY97

Number legals produced:	66,231
Weight of legals produced (lbs.):	27,610.69
Percent mortality from possession to stocking:	4.1%
Average number/pound of legals produced:	2.40
Conversion rate:	1.37

Trophy Trout Reared (Rainbow Trout less than 1 fish/pound)

Rainbow Trout

Cape Cod Stock BY96

Number trophy trout produced:	5,675
Weight of trophy trout produced (lbs.):	13,496.15
Percent mortality from possession to stocking:	0.6%
Average number/pound of trophy trout produced:	0.4
Conversion rate:	1.37

Food Fed and Weight Gain

Steelhead

Wallowa Stock BY98

Big Canyon Facility

Total pounds of food fed	10,900
Conversion rate	1.49
Total pounds weight gained - all sizes produced	7,318

Wallowa Fish Hatchery

Total pounds of food fed	19,000
Conversion rate	1.48
Total pounds weight gained - all sizes produced	12,864

Food Fed and Weight Gain

**Steelhead
Imnaha Stock BY98**

Little Sheep Creek Facility	
Total pounds of food fed	8,600
Conversion rate	1.57
Total pounds weight gained - all sizes produced	5,467

**Rainbow Trout
Cape Cod Stock BY96**

Wallowa Fish Hatchery	
Total pounds of food fed	55,235
Conversion rate	1.37
Total weight gain (lbs.) - all sizes produced	40,454

**Rainbow Trout
Cape Cod Stock BY97**

Wallowa Fish Hatchery	
Total pounds of food fed	34,500
Conversion rate	1.37
Total weight gain (lbs.) - all sizes produced	25,182

FY99 Stocking

Total number of distribution trips:	44
Number of fry stocked	0
Weight of fry stocked:	0 lbs.
Number of fingerlings stocked:	41,745
Weight of fingerlings stocked:	555.56 lbs.
Number of smolts stocked:	1,585,129
Weight of smolts stocked:	332,787.68
Number of legal trout stocked:	66,231
Weight of legal trout stocked:	27,610.69 lbs.
Number of trophy trout stocked:	5,675
Weight of trophy trout stocked:	13,496.15 lbs.
Date, location, number and weight at each stocking:	See Attached

**Stocking Records for Wallowa Fish Hatchery and Satellites, October 1, 1998
through September 30, 1999**

Species	Lot	Date	Waterbody	No/ Lb.	Pounds Loaded	Number Loaded	Morts	Pounds Stocked	Number Stocked
Rainbow Trout	072 96	4/16/1999	MARR PD	0.53	113.0	60	0	113.0	60
Rainbow Trout	072 96	4/16/1999	VICTOR PD	0.53	113.0	60	0	113.0	60
Rainbow Trout	072 96	4/16/1999	WALLOWA WILDLIFE PD	0.53	64.0	34	0	64.0	34
Rainbow Trout	072 96	4/16/1999	WALLOWA WILDLIFE PD	0.57	46.0	26	0	46.0	26
Rainbow Trout	072 96	4/16/1999	ROULET PD	0.57	105.0	60	0	105.0	60
Rainbow Trout	072 96	4/16/1999	MAC PD	0.57	128.0	73	0	128.0	73
Rainbow Trout	072 96	5/5/1999	WALLOWA LK	0.51	488.0	249	0	488.0	249
Rainbow Trout	072 96	5/5/1999	WALLOWA LK	0.54	468.0	251	0	468.0	251
Rainbow Trout	072 96	5/12/1999	MAC PD	0.50	120.0	60	0	120.0	60
Rainbow Trout	072 96	5/12/1999	MARR PD	0.50	60.0	30	0	60.0	30
Rainbow Trout	072 96	5/12/1999	VICTOR PD	0.50	60.0	30	0	60.0	30
Rainbow Trout	072 96	5/12/1999	WALLOWA WILDLIFE PD	0.50	116.0	58	0	116.0	58
Rainbow Trout	072 96	5/12/1999	ROULET PD	0.50	74.0	37	0	74.0	37
Rainbow Trout	072 96	5/19/1999	MORGAN LK	0.49	725.0	352	0	725.0	352
Rainbow Trout	072 96	5/21/1999	KINNEY LK	0.45	885.0	394	0	885.0	394
Rainbow Trout	072 96	6/2/1999	WALLOWA LK	0.43	775.0	333	0	775.0	333
Rainbow Trout	072 96	6/11/1999	MAC PD	0.41	183.0	75	0	183.0	75
Rainbow Trout	072 96	6/11/1999	ROULET PD	0.41	74.0	30	0	74.0	30
Rainbow Trout	072 96	6/11/1999	WALLOWA WILDLIFE PD	0.40	188.0	75	0	188.0	75
Rainbow Trout	072 96	6/11/1999	VICTOR PD	0.40	125.0	50	0	125.0	50
Rainbow Trout	072 96	6/11/1999	MARR PD	0.40	125.0	50	0	125.0	50
Rainbow Trout	072 96	6/12/1999	MARR PD	0.31	488.0	151	0	488.0	151
Rainbow Trout	072 96	6/18/1999	WALLOWA LK	0.43	699.0	301	0	699.0	301
Rainbow Trout	072 96	6/18/1999	WALLOWA LK	0.50	606.0	303	2	602.0	301
Rainbow Trout	072 96	6/28/1999	MORGAN LK	0.45	978.0	440	0	978.0	440
Rainbow Trout	072 96	6/30/1999	TWIN LKS	0.39	260.0	101	1	257.4	100
Rainbow Trout	072 96	7/2/1999	WALLOWA LK	0.38	1,757.0	668	0	1,757.0	668
Rainbow Trout	072 96	7/12/1999	TWIN LKS	0.43	698.3	300	4	689.0	296
Rainbow Trout	072 96	7/19/1999	MCGRAW POND	0.42	120.0	50	0	120.0	50
Rainbow Trout	072 96	7/19/1999	SALT CREEK SUMMIT POND	0.42	120.0	50	0	120.0	50
Rainbow Trout	072 96	7/20/1999	TEEPEE PD	0.45	110.0	50	0	110.0	50
Rainbow Trout	072 96	7/20/1999	HONEYMOON POND	0.45	110.0	50	0	110.0	50
Rainbow Trout	072 96	8/9/1999	WALLOWA LK	0.31	966.0	299	0	966.0	299
Rainbow Trout	072 96	8/25/1999	WALLOWA LK	0.34	1,564.7	532	0	1,564.7	532
Rainbow Trout	072 97	10/21/1998	KINNEY LK	26.50	400.0	10,600	5	399.8	10,595
Rainbow Trout	072 97	4/16/1999	MARR PD	2.80	185.0	518	1	184.6	517

**Stocking Records for Wallowa Fish Hatchery and Satellites, October 1, 1998
through September 30, 1999**

Species	Lot	Date	Waterbody	No/ Lb.	Pounds Loaded	Number Loaded	Morts	Pounds Stocked	Number Stocked
Rainbow Trout	072 97	4/16/1999	VICTOR PD	2.80	185.0	518	0	185.0	518
Rainbow Trout	072 97	4/16/1999	WALLOWA WILDLIFE PD	2.80	274.0	767	1	273.6	766
Rainbow Trout	072 97	4/16/1999	ROULET PD	2.80	185.0	518	0	185.0	518
Rainbow Trout	072 97	4/16/1999	MAC PD	2.80	274.0	767	2	273.3	765
Rainbow Trout	072 97	5/3/1999	MAC PD	2.60	195.0	507	1	194.6	506
Rainbow Trout	072 97	5/3/1999	ROULET PD	2.60	195.0	507	1	194.6	506
Rainbow Trout	072 97	5/3/1999	MARR PD	2.60	195.0	507	1	194.6	506
Rainbow Trout	072 97	5/3/1999	WALLOWA WILDLIFE PD	2.60	195.0	507	0	195.0	507
Rainbow Trout	072 97	5/3/1999	VICTOR PD	2.60	195.0	507	0	195.0	507
Rainbow Trout	072 97	5/5/1999	WALLOWA LK	2.60	1,975.0	5,135	7	1,972.3	5,128
Rainbow Trout	072 97	5/17/1999	MARR PD	1.97	255.0	502	1	254.5	501
Rainbow Trout	072 97	5/17/1999	VICTOR PD	1.97	255.0	502	1	254.5	501
Rainbow Trout	072 97	5/17/1999	WALLOWA WILDLIFE PD	1.97	381.0	751	1	380.5	750
Rainbow Trout	072 97	5/17/1999	ROULET PD	1.97	255.0	502	0	255.0	502
Rainbow Trout	072 97	5/17/1999	MAC PD	1.97	381.0	751	2	380.0	749
Rainbow Trout	072 97	5/21/1999	KINNEY LK	2.30	1,740.0	4,002	3	1,738.7	3,999
Rainbow Trout	072 97	5/27/1999	WALLOWA LK	2.20	2,275.0	5,005	3	2,273.6	5,002
Rainbow Trout	072 97	6/4/1999	SALT CREEK SUMMIT POND	2.30	220.0	506	11	215.2	495
Rainbow Trout	072 97	6/4/1999	TEEPEE PD	2.30	220.0	506	2	219.1	504
Rainbow Trout	072 97	6/4/1999	HONEYMOON POND	2.30	220.0	506	2	219.1	504
Rainbow Trout	072 97	6/10/1999	MARR PD	2.20	233.0	513	1	232.6	512
Rainbow Trout	072 97	6/10/1999	MAC PD	2.20	346.0	761	1	345.6	760
Rainbow Trout	072 97	6/10/1999	ROULET PD	2.20	233.0	513	2	232.1	511
Rainbow Trout	072 97	6/10/1999	VICTOR PD	2.20	233.0	513	1	232.6	512
Rainbow Trout	072 97	6/18/1999	WALLOWA LK	2.30	1,320.0	3,036	7	1,317.0	3,029
Rainbow Trout	072 97	6/24/1999	MCGRAW POND	2.20	455.0	1,001	0	455.0	1,001
Rainbow Trout	072 97	6/24/1999	SALT CREEK SUMMIT POND	2.20	228.0	502	2	227.1	500
Rainbow Trout	072 97	6/25/1999	HONEYMOON POND	2.20	230.0	506	0	230.0	506
Rainbow Trout	072 97	6/25/1999	TEEPEE PD	2.20	230.0	506	0	230.0	506
Rainbow Trout	072 97	6/30/1999	TWIN LKS	2.40	1,250.0	3,000	7	1,247.1	2,993
Rainbow Trout	072 97	7/1/1999	WALLOWA LK	2.40	2,115.0	5,076	7	2,112.1	5,069
Rainbow Trout	072 97	7/12/1999	TWIN LKS	1.80	1,112.0	2,002	8	1,107.6	1,994
Rainbow Trout	072 97	7/15/1999	WALLOWA LK	2.70	1,900.0	5,130	3	1,898.9	5,127
Rainbow Trout	072 97	7/19/1999	MCGRAW POND	2.70	186.0	502	0	186.0	502
Rainbow Trout	072 97	7/19/1999	SALT CREEK SUMMIT POND	2.70	186.0	502	0	186.0	502
Rainbow Trout	072 97	7/20/1999	TEEPEE PD	2.70	186.0	502	0	186.0	502

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Rainbow Trout	072 97	7/20/1999	HONEYMOON POND	2.70	186.0	502	1	185.6	501
Rainbow Trout	072 97	7/30/1999	WALLOWA LK	2.40	2,515.0	6,036	2	2,514.2	6,034
Rainbow Trout	072 97	8/2/1999	TEEPEE PD	2.80	200.0	560	2	199.3	558
Rainbow Trout	072 97	8/2/1999	HONEYMOON POND	2.80	200.0	560	0	200.0	560
Rainbow Trout	072 97	8/3/1999	MCGRAW POND	2.80	179.0	501	0	179.0	501
Rainbow Trout	072 97	8/3/1999	SALT CREEK SUMMIT POND	2.80	179.0	501	1	178.6	500
Rainbow Trout	072 97	8/9/1999	WALLOWA LK	2.60	1,185.0	3,081	0	1,185.0	3,081
Rainbow Trout	072 97	8/23/1999	WALLOWA LK	2.53	1,960.0	4,959	0	1,960.0	4,959
Rainbow Trout	072 98	6/10/1999	WALLOWA WILDLIFE PD	2.20	346.0	761	1	345.6	760
Rainbow Trout	072 98	8/16/1999	FRANCIS LK	200.00	20.0	4,000	0	20.0	4,000
Rainbow Trout	072 98	8/16/1999	HOBO LK	200.00	10.0	2,000	0	10.0	2,000
Rainbow Trout	072 98	8/16/1999	UNIT LK	200.00	10.0	2,000	0	10.0	2,000
Rainbow Trout	072 98	8/16/1999	PROSPECT LK	200.00	10.0	2,000	0	10.0	2,000
Rainbow Trout	072 98	8/16/1999	HAWK LK	200.00	10.0	2,000	0	10.0	2,000
Rainbow Trout	072 98	8/16/1999	LEGORE LK	200.00	7.5	1,500	0	7.5	1,500
Rainbow Trout	072 98	8/16/1999	CRATER LK	200.00	12.5	2,500	0	12.5	2,500
Rainbow Trout	072 98	8/16/1999	DUCK LK	200.00	17.5	3,500	0	17.5	3,500
Rainbow Trout	072 98	8/16/1999	EAGLE LK	200.00	8.3	1,650	0	8.3	1,650
Rainbow Trout	072 98	8/16/1999	HEART LK	200.00	10.0	2,000	0	10.0	2,000
Rainbow Trout	072 98	8/16/1999	LOOKINGGLASS LK	200.00	15.0	3,000	0	15.0	3,000
Rainbow Trout	072 98	8/16/1999	MELLARD RES	200.00	5.0	1,000	0	5.0	1,000
Rainbow Trout	072 98	8/16/1999	ANEROID LK	200.00	20.0	4,000	0	20.0	4,000
Steelhead	029 98	4/13/1999	SHEEP CR, L	4.77	45,135.0	215,294	0	45,135.0	215,294
Steelhead	029 98	5/18/1999	SHEEP CR, L	5.40	22,107.0	119,378	0	22,107.0	119,378
Steelhead	056 98	3/31/1999	SPRING CR	4.54	47,743.0	216,755	0	47,743.0	216,755
Steelhead	056 98	4/1/1999	SPRING CR	4.30	50,863.0	218,711	0	50,863.0	218,711
Steelhead	056 98	4/6/1999	SPRING CR	4.80	28,837.0	138,417	0	28,837.0	138,417
Steelhead	056 98	4/7/1999	DEER CREEK	4.60	26,010.0	119,648	0	26,010.0	119,648
Steelhead	056 98	4/8/1999	DEER CREEK	4.60	26,002.0	119,608	0	26,002.0	119,608
Steelhead	056 98	5/12/1999	SPRING CR	5.30	21,900.0	116,072	0	21,900.0	116,072
Steelhead	056 98	5/13/1999	SPRING CR	4.90	22,522.0	110,357	0	22,522.0	110,357
Steelhead	056 98	5/19/1999	DEER CREEK	5.00	20,766.0	103,829	0	20,766.0	103,829
Steelhead	056 98	6/3/1999	DEER CREEK	5.10	20,488.0	104,489	0	20,488.0	104,489
Steelhead	056 98	6/9/1999	KINNEY LK	6.20	415.0	2,573	2	414.7	2,571