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Box #5

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UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
LOWER SNAKE RIVER COMPENSATION PLAN OFFICE
4696 OVERLAND ROAD, ROOM 560
BOISE, IDAHO 83705

DRAFT

ANNUAL REPORT - LYONS FERRY TROUT HATCHERY
OCTOBER 1, 1992 TO SEPTEMBER 30, 1993
CONTRACT NUMBER: 14-16-0001-91503 (93-01)

HAROLD R HARTY - FISH HATCHERY MANAGER V
MICHAEL A ROLFE - ASSISTANT MANAGER
LYONS FERRY TROUT HATCHERY
STARBUCK, WASHINGTON 99359-0278

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ACKNOWLEDGEMENTS

We would like to thank Mark Schuck, Art Viola and Michael Keller of Washington Department of Wildlife, Lyons Ferry Evaluation and Steve Roberts, Pathologist for their able assistance with the sorting and spawning of steelhead adults at Cottonwood Creek and Lyons Ferry.

A special word of thanks to Orville Bramer, Truck Driver II, for his dedication and hard work in the transportation of rainbow legals and steelhead smolts to the acclimation ponds, lakes, rivers and streams throughout the region.

We would like to thank John Hisata, John Kerwin, Mark Schuck and Art Viola for reviewing the draft manuscript.

We also would like to express a special appreciation to William Hubbard and staff of the Tucannon hatchery for their cooperation and hard work at making our program a success, and to the staff of the LSRCP office in Boise for their firm support.

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INTRODUCTION

Lyons Ferry Trout Hatchery is part of the Lower Snake River Compensation Plan and has been in operation since 1983. Mitigation goals are: 931,000 summer steelhead with a weight of 116,400 pounds; 100,000 legal/catchable and 200,000 sub-legal rainbow with a weight of 40,000 pounds. Two satellite facilities, Dayton and Cottonwood Ponds located on the Touchet and Grande Ronde Rivers respectively, are used to acclimate steelhead smolts for a period of two months prior to release. The Tucannon Trout Hatchery and Curl Lake Pond are also satellites of Lyons Ferry Trout Hatchery with mitigation goals of 153,000 rainbow weighing 46,000 pounds and 120,000 summer steelhead with a weight of 8,000 pounds which are included in mitigation goals of Lyons Ferry Trout Hatchery.

EXECUTIVE SUMMARY

Fiscal Year 1992/93 production of steelhead was 1,045,016 fish weighing 205,315 pounds. Rainbow trout production included 115,449 legal size and 219,882 sub-legal size fish with weights of 59,640 pounds and 6,689 pounds respectively.

Adult steelhead returns exceeded previous years. A total of 3,543 adults were trapped in the months of July, August, September and October. On November 16 & 17, 1993, we sorted through the adults and returned 1,472 females and 992 males to the Snake River to spawn naturally (Table 1).

A total of 1,211,053 green eggs were taken with 1,029,935 eggs reaching the eyed stage. A total of 940,022 eyed eggs were retained for rearing.

Adult steelhead returning to Cottonwood Creek were trapped in the months of March and April (Table 3).

Of the 533,995 green eggs taken, 392,595 eggs reached the eyed stage. Positive IHN virus test results dictated the destruction of 77,760 eggs. A total of 289,198 eyed eggs were retained for rearing.

LYONS FERRY SUMMER STEELHEAD

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1992 BROOD YEAR

At the beginning of the fiscal year, 369,202 fingerling (26.0/lb) weighing 14,200 pounds were on hand. Between January 19 and 22, we transferred steelhead fingerlings from rearing lake 2 for marking (coded wire tags, freeze brands and left ventral fin clip). Five groups of fish were marked (Table 5). By March 9, 1993, 40,432 marked fingerling (7.7/lb avg) weighing 5,252 pounds and 35,030 unmarked fingerling (6.2/lb) weighing 5,650 pounds were transferred to the Dayton Acclimation Pond. On March 10, 1993, 65,001 marked fingerling (6.1/lb avg) weighing 10,645 pounds were transferred to the Curl Lake Acclimation Pond. Between April 16 and 24, 1993, a total of 247,727 smolts (4.4/lb - 5.9/lb) weighing 52,450 pounds were released into the following waters; Snake, Touchet, Tucannon and Walla Walla Rivers (Table 7).

1993 BROOD YEAR

Operation of the adult fish ladder was initiated on July 1, 1992, and terminated on November 15, 1993. A total of 3,543 adult steelhead were captured (Table 1). Peak returns occurred between Spetember 28, 1992 and October 6, 1993.

Spawning occured over a period of five weeks, commencing on January 26, 1993 and ending on February 23, 1993, with a total of 1,211,053 green eggs taken from 261 females (Table 2). In an attempt to control the IHN Virus and test the effect of fertilization in de-ionized water compared to well water, de-ionized water was added to the eggs and milt in conjunction with an idophor during the water hardening process. We retained 940,022 eyed eggs for rearing to smolt size. Hatching of the eggs was completed on March 21, 1993, resulting in 860,983 fry. Egg loss from eyed stage to sack-fry was 79,039 (8.41%). By June 1, 1993, 716,212 fry (164/lb - 320/lb) weighing 3,178 pounds had been trasferred to raceways.

Adipose fin clip marking commenced on August 16, 1993 and was completed August 25, 1993, with 295,353 fingerling (36.9/lb) weighing 8,004 pounds transferred to production lake 1 and 320,233 fingerling (35.6/lb) weighing 8,995 pounds transferred to production lake 2. On September 30, 1993, 614,786 fingerling (17.2/lb) weighing 35,799 pounds were on hand.

HELLS CANYON "A" STRAIN SUMMER STEELHEAD

1992 BROOD YEAR

At the beginning of the fiscal year, 325,761 fingerling (52.5/lb) weighing 6,206 pounds were on hand. Between April 14, and 22, 1993, 315,350 smolts (4.0/lb - 5.3/lb) were released into the Snake River at the following locations; Lyons Ferry, mouth of Asotin Creek and Texas Rapids (Table 7). A loss of 10,411 fish (3.2%) was experienced throughout the rearing cycle.

Table 1. Adult Returns to Lyons Ferry Hatchery and Adults Shipped

LYONS FERRY SUMMER STEELHEAD

Date of first return.....	7-07-92
Date of last return.....	10-30-92
Number of females returning.....	2,034
Number of males returning.....	1,509
Dates of peak returns.....	9-28-92 to 10-06-92
Number of females and males released to spawn naturally...	2,464
Mortality of all adult returns.....	790
Number of adults shipped.....	1

Table 2. Spawning Records for 1993 Lyons Ferry Stock Summer Steelhead

DATES SPAWNED	NUMBER OF EGGS TAKEN	NUMBER FEMALES	NUMBER MALES
1-26-93	300,701	65	130
2-02-93	175,745	40	85
2-09-93	194,705	42	93
2-16-93	250,714	56	120
2-23-93	289,188	58	121
Total number of females spawned.....			261
Total number of males spawned.....			549
Total number of green eggs.....			1,211,053
Total number of eyed eggs.....			1,029,935
Number of eggs retained for rearing.....			940,022
Number of eggs shipped.....			-0-

WALLOWA SUMMER STEELHEAD

1992 BROOD YEAR

On October 1, 1992, 369,000 fingerling (72.9/lb) weighing 5,062 pounds were being reared in production lake 3. Between February 28 and March 5, 1993, 296,000 fingerling (7.2/lb - 8.2/lb) weighing 39,000 pounds were transferred to Cottonwood Acclimation Pond. By April 30, 1993, 291,711 smolts (5.9/lb average) weighing 49,865 pounds were voluntarily release into the Grande Ronde River (Table 6).

1993 BROOD YEAR

Initiated operation of Cottonwood Creek adult trap on March 16, 1992, and terminated trapping on April 12, 1992. A total of 397 adult steelhead were captured. Peak returns occurred between March 30 and April 7, 1992 (Table 3).

Spawning occurred over a period of two weeks, commencing on April 8, 1993 and ending on April 13, 1993, resulting in 533,995 green eggs (Table 4). Virology tests indicated the presence of the IHN Virus in some of the adults. Consequently, 77,760 eggs were destroyed. A total of 289,198 eyed eggs were retained for rearing. Hatching of the eggs was completed on May 7, 1993, resulting in 271,970 fry (5.96 percent loss from eyed egg to sack-fry). On April 15, 1993, we received 272,000 eyed eggs from Enterprise Hatchery. Hatching of the eggs was completed on April 23, 1993, resulting in 257,599 fry (5.29 percent loss from eyed eggs to fry). By July 21, 1993, 457,846 fry (172/lb - 225/lb) with a weight of 2,312 pounds were transferred to raceways. Adipose fin clipping commenced on August 27, 1993 and was completed on September 1, 1993, with 330,346 fingerling (104/lb) weighing 3,161 pounds transferred to production lake 3. On September 30, 1993, 421,345 fingerling (56.8/lb) weighing 7,420 pounds were on hand.

Table 3. Adult Returns to Cottonwood Creek Acclimation Pond

Date of first return.....	3-16-93
Date of last return.....	4-10-93
Number of females returning.....	198
Number of males returning.....	164
Dates of peak returns.....	3-17-93 to 4-01-93
Number of females and males released to spawn naturally.....	-0-
Mortality of all adult returns.....	362
Number of adults shipped.....	-0-

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Table 4. Spawning Records for 1993 Wallowa Stock Summer Steelhead

DATES SPAWNED	NUMBER EGGS TAKEN	NUMBER FEMALES	NUMBER MALES
4-08-93	269,493	48	102
4-13-92	264,502	48	104
Total number of females spawned.....			96
Total number of males spawned.....			206
Total number of green eggs.....			533,995
Total number of eyed eggs.....			392,595
Number of eggs retained for rearing.....			289,198
Number of eggs destroyed (IHNV positive).....			77,760

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Table 5. Marked Groups of Steelhead for 1993 Release

<u>NUMBER OF FISH</u>	<u>BRAND</u>	<u>TAG CODE</u>	<u>FIN CLIP</u>
<u>Curly Lake</u>			
30,035	RA-IC-1	63-48/15	AD/LV
<u>Dayton Acclimation Pond</u>			
20,104	RA-H-2	63-59/41-R2	AD/LV
20,328	RA-H-1	63-46/49	AD/LV
<u>Tucannon River at Curly Lake</u>			
30,221	LA-IC-1	63-48/16	AD/LV
<u>Tucannon River at Marengo</u>			
30,031	LA-IC-3	63-48/17	AD/LV
<u>Tucannon River at Curly Lake - "Wild" Tucannon Summer Steelhead</u>			
4,762		63-48/47	LV

SPOKANE STOCK RAINBOW TROUT

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1991 BROOD YEAR

On October 1, 1992, 111,505 fingerling (6.6/lb) weighing 35,799 pounds were on hand. Cold weather, snow, ice and cold water temperatures in receiving waters delayed stocking for a period of one month. By March 26, 1993, 115,449 legal size fish (1.8/lb - 2.0/lb) weighing 59,640 pounds were stocked into area lakes (Table 8). A 3,944 fish overrun was realized at this time.

1992 BROOD YEAR

On December 30, 1992, we received 376,400 eyed eggs from Spokane Trout Hatchery. Hatching of the eggs was completed on January 9, 1993, resulting in 373,253 fry (2,501/lb) with a weight of 149 pounds. Egg loss was 3,147 (0.84%). By April 16, 1993, 358,751 fry (153/lb) weighing 2,344 pounds were transferred to raceways. On May 18 and 19, 1993, 160,262 fingerling were adipose fin clipped as requested by Idaho Fish & Game. Between June 2 and 3, 1993, 160,062 fingerling (38.6/lb - 43.3/lb) weighing 3,914 pounds were transferred to Idaho Fish & Game for stocking into Manns, Spring Valley, Waha lakes, Soliders Meadows and Winchester Reservoirs (Table 8). On June 15 and 16, 1993, 59,820 fingerling (21.0/lb - 24/lb) weighing 2,775 pounds were stocked into Sprague Lake in Adams County (Table 8). On September 1, 1993, we received 57,325 fingerling (25/lb) weighing 2,293 pounds from Tucannon Trout Hatchery. On September 3, 1993, the 57,325 fingerling were marked with a Right Ventral fin clip as requested by Idaho Fish & Game.

By September 30, 1993, 167,133 fingerling (8.2/lb) with a weight of 20,325 pounds were on hand. Mortality to the present stage of rearing is 15,326 fish (4.07%).

OPERATION AND MAINTENANCE

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Engineering Projects

The 14,000 volt underground electrical system continues to plague the facility. On June 3, 1993, S & S Electric and Inland Power and Light had to be called in to replace an elbow and 3-point junction box. "Spikes" and/or "Bumps" on our main line wreck havoc with all types of electrical equipment used in the operation of this facility. Well pump circuit breakers, heat pumps, elbows and 3-point junction boxes of the underground electrical system are just a few examples of equipment experiencing troubles due to this problem. On November 16, 1993, S & S Electric replaced the main circuit breaker for well #8 at a cost of \$3,490.44. The U.S. Army Corps of Engineers (C.O.E.) issued a contract to replace the HSQ2 main circuit breaker. The work was performed and completed by S & S Electric in January 1993.

The C.O.E. also issued a contract to replace the outdated alarm and monitoring system with a computerized telemetry system. Technical Systems, Inc. of Lynnwood, WA was awarded the contract. Installation of the new system began on November 9, 1992 and was completed on November 24, 1993. The cost of this project was \$48,198.00.

The C.O.E. is in the process of replacing worn and faded interpretative (for self-guided tour), safety and traffice control signs. Operation and maintenance mannuals for Cottonwood and Dayton Acclimation Ponds are also being developed.

Earth Science Technology of Beaverton, OR. tested all underground fuel storage tanks for tightness on May 24, 1993. All tanks found to be in compliance of Federal and State requirements.

Assisted personnel from Lyons Ferry Evaluation with the design, fabrication and installation of a steelhead adult trap on the Touchet River. The trap will be used by the Evaluation staff to enumerate both "wild" and hatchery adult returns.

October through December, all spare time was devoted to the construction of an 18'x 20' office space addition. A special "thanks" to Gary Griffen, Plant Mechanic for his capable supervision of this project.

D & D Painting of Everett, WA completed painting the trim on all hatchery buildings and the five residences in July 1993.

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Maintenance and Construction Projects

A wide variety of projects involved the hatchery crew during the year to repair and/or replace damaged and faulty equipment to enhance hatchery operations.

Cleaned, prepped and painted 5 batteries of troughs and 4 intermediate tanks in the incubation room. Repaired hatchery building roof to stop water leak. As a result of this leak, the entire wall, separating the shop and saw room, had to be replaced. Old, wet sheetrock and deteriorated wall studs were removed and replaced with new studs, plywood and masonite wall board. Repairs to chimneys at all five residences included laying block and linings, pouring a pad and cutting the eaves. This project was completed in August 1993. Replaced worn out adult trap crowder hoist with new unit on July 2, 1993. Hatchery crew and YCC workers applied a "seal-coat" substance to cracks at several locations throughout the complex during July and August. "Cold-Patch" was applied to large cracks and holes prior to application of the "seal-coat". Replaced Koch rings in aeration towers of adult holding raceways with larger, more efficient Koch rings. Replaced garage entry and screen doors on residence #3. Repainted center lines of roadway throughout the complex. Parking lines at the interpretative center and hatchery were also repainted. On December 22, 1992, the pipeline marker buoys were removed with assistance from Bruce Smith, Regional Manager with the Department of Wildlife. Additional gravel was applied, graded and rolled to the Marmes access road.

On August 2 and 19, 1993, the hatchery crew fought brush fires directly north and east of the hatchery complex. Extremely hot, dry conditions and strong winds threatened to push the fires into the hatchery residences on the north side of the complex.

EQUIPMENT PURCHASES

Equipment purchases for the fiscal year include; safety equipment required by Labor & Industries, vinyl curtains for incubation room, stainless steel fish transportation tank, 1993 Chevrolet K3500 Cab & Chassis with 4-wheel drive, Knapheid service body for cab & chassis, Rankin 4 foot rotary cutter, Sweepster 5 foot rotary sweeper, Austin 486/33 Computer system, HP Laser Jet printer, Software (Wordperfect/Windows, Quattro Pro/Windows, Wordperfect/Dos - V 5.1).

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N.P.D.E.S. PERMITS

Expenditures relative to the National Pollutant Discharge Elimination System (N.P.D.E.S.) Permits for Lyons Ferry Hatchery, Cottonwood and Dayton Acclimation Ponds amounted to \$7,570.71.

PERSONNEL

Harald von Fischer-Benzon and Floyd W Schriener were employed as temporary Assistant Managers during the months of February, March and April 1994 to operate the Cottonwood and Dayton Acclimation Ponds. These individuals did an outstanding job and will assume these duties again in 1994.

Steve Jones, Harold Harty and Jeanie Robanske attended the Pacific Northwest Fish Culture Conference held in Wenatchee, WA December 1 - 3, 1992. On February 4, 1993, Gary Griffen and Harold Harty attended required pesticide application training classes to keep their applicators license current. Over the course of the year, the hatchery crew received training on Basic First Aid, CPR, use and care of "Scott Air Packs and other safety equipment. To meet Labor and Industries safety requirements, Harold Harty composed the "Confined Space Procedures" for Lyons Ferry Trout Hatchery.

Tim Holder accepted a lateral transfer to the Assistant Manager position at the Chelan Trout Hatchery on February 17, 1993. Steve Jones and Jeff Wendt interviewed for a Fish Culturist II at Goldendale Hatchery on March 4, 1993. Interviews for the vacated assistant manager position at Lyons Ferry were completed on March 18, 1993. Michael A Rolfe was selected to fill the vacated position and began his new duties on April 1, 1993.

Christopher Dills, Jamie Dills and Kim (Bud) Lyonnais were selected to fill our allotted Youth Conservation Program positions. Joann Laib, a participant in the Northeast Washington Rural Resources Summer Youth Training Program was assigned to our facility.

In July 1993, enforcement personnel from Washington's Department of Fisheries and Wildlife, Idaho Fish & Game, Oregon State Police, National Marine Fisheries Service and the U.S. Fish and Wildlife Service utilized the hatchery quarters while executing an "Emphasis Patrol" on the Snake River.

On August 20, 1993, personnel from the C.O.E. - Walla Walla District performed an "Environmental Hazard" inspection of this facility. A report on their findings will be sent out at a later date.

Table 6. Food Fed and Weight Gain for all Fish Species at Lyons Ferry Hatchery

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SUMMER STEELHEAD

<u>SPECIES</u>	<u>BROOD YEAR</u>	<u>POUNDS FOOD FED</u>	<u>GAIN</u>	<u>CONVERSION</u>
Lyons Ferry	1992	78,771	75,430	1.04:1
Lyons Ferry	1993	33,469	35,799	0.94:1
Wallowa	1992	63,115	55,075	1.15:1
Wallowa	1993	9,415	7,420	1.27:1
Hells Canyon "A" Strain	1992	70,355	60,244	1.17:1
TOTAL (ALL STEELHEAD 91-92)		255,125	233,968	1.09:1

RAINBOW TROUT

Spokane	1991	48,460	42,625	1.14:1
Spokane	1992	23,152	24,721	0.94:1
TOTAL (ALL RAINBOW 91-92)		71,612	67,346	1.06:1
TOTAL ALL SPECIES		326,737	301,314	1.08:1

1992/93 STOCKING DATA FOR LYONS FERRY TROUT HATCHERY

Table 7.

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SUMMER-RUN STEELHEAD SMOLTS

LOCATION	BROOD YEAR	NUMBER of TRIPS	NUMBER of FISH	WEIGHT of FISH
<u>LYONS FERRY</u>				
Snake R.	1992	4	68,650	13,500
Tucannon R.	1992	4	59,877	13,000
Curl Lk (Transferred)	1992	3	65,001	10,645
Dayton Pond	1992	4	75,039	15,633
Touchet River	1992	2	35,960	7,400
Walla Walla R.	1992	4	83,240	18,550
SUB TOTAL		21	387,767	78,728
<u>WALLOWA'A</u>				
Cottonwood Pond	1992	8	291,711	49,865
Wildcat Cr.	1992	2	50,188	10,272
SUB TOTAL		10	341,899	60,137
<u>HELLS CANYON "A" STRAIN</u>				
Snake River	1992	14	315,350	66,450
SUB TOTAL		14	315,350	66,450
TOTAL (BROOD YEAR 1992)		45	1,045,016	205,315

Table 8.

RAINBOW TROUT (LEGAL SIZE)

LOCATION	BROOD YEAR	NUMBER of TRIPS	NUMBER of FISH	WEIGHT of FISH
<u>SPOKANE RAINBOW</u>				
Beaver Lake	1991	1	1,001	527
Big Four	1991	2	3,458	1,820
Blue Lake	1991	2	7,100	3,540
Dalton Pond	1991	1	10,000	5,000
Dayton Juvenile Pond	1991	1	2,100	1,050
Deer Lake	1991	2	6,616	3,320
Golf Course	1991	3	7,980	4,200
Marmes Pond	1991	1	500	250
Mill Cr Reservoir	1991	3	18,868	9,720
Quarry Pond	1991	3	19,900	10,500
Rainbow Lake	1991	4	11,923	6,270
Riparia Pond	1991	1	1,000	500
Silcott Pond	1991	1	3,000	1,500
Spring Lake	1991	3	8,025	4,230
Watson Lake	1991	3	8,977	4,713
West Evans	1991	1	5,001	2,500
SUB TOTAL		32	115,449	59,640
<u>SPOKANE RAINBOW (SUB-LEGAL SIZE)</u>				
Idaho F & G (transfer)	1992	2	160,062	3,914
Sprague Lake	1992	3	59,820	2,775
SUB TOTAL		5	219,882	6,689
TOTAL (BROOD YEAR 1991-1992)		37	335,331	66,329

STATE OF WASHINGTON
DEPARTMENT OF WILDLIFE

HATCHERY PROGRAM - ANNUAL REPORT
July 1, 1992 - June 30, 1993

FACILITY Lyons Ferry Trout Hatchery Manager Harold R Hartv

1. PERMANENT CREW

As of July 1, 1992

<u>Name</u>	<u>Position</u>
Harold R Hartv	Fish Hatchery Manager V
Tim W Holder	Assistant Manager
Gary D Griffen	Plant Mechanic I
Jeff W Wendt	Fish Culturist I
Steve L Jones	Fish Culturist I
Jeanie E Robanske	Fish Culturist I

SATELLITE FACILITY SUPERVISED - TUCANNON HATCHERY

William M Hubbard	Fish Hatchery Manager III
Michael M Sutterfield	Fish Culturist II
Lyle S Leslie	Fish Culturist I

As of June 30, 1993

<u>Name</u>	<u>Position</u>
Harold R Hartv	Fish Hatchery Manager V
Michael A Rolfe	Assistant Manager
Gary D Griffen	Plant Mechanic I
Jeff W Wendt	Fish Culturist I
Steve L Jones	Fish Culturist I
Jeanie E Robanske	Fish Culturist I

SATELLITE FACILITY SUPERVISED - TUCANNON HATCHERY

William M Hubbard	Fish Hatchery Manager III
Michael M Sutterfield	Fish Culturist II
Lyle S Leslie	Fish Culturist I

2. TEMPORARY EMPLOYEES (includes YCC, fish markers, etc.)

Name	Status	Duration of Time on Station
------	--------	--------------------------------

TEMPORARY ASSISTANT MANAGERS - 3 MONTH POSITIONS - COTTONWOOD AND DAYTON ACCLIMATION PONDS

Harald v. Fischer-Benzon	Asst. Mgr.	440.0 hours
Floyd W Schrinier	Asst. Mgr.	512.0 hours

YOUTH CONSERVATION CORPS - SUMMER MONTHS

Jamie L Dills	YCC	472.0 hours
Christopher M Dills	YCC	104.0 hours
Joann A Laib	CRT	64.0 hours
Jeromie R Leroue	YCC	238.5 hours
Kim J Lyonnais	YCC	128.0 hours
Andria M Maxwell	YCC	304.0 hours

FISH MARKERS HIRED AS TEMPORARY FISH CULTURIST I's

Jessie Bauman	Cult. I	115.0 hours
Suzanne Burton	Cult. I	84.0 hours
Lynn Fowlie	Cult. I	15.0 hours
William Gano	Cult. I	15.0 hours
Rodney Greiner	Cult. I	100.0 hours
Violet Greiner	Cult. I	100.0 hours
Candice Harrison	Cult. I	15.0 hours
Lela Harty	Cult. I	96.0 hours
Donna Hays	Cult. I	115.0 hours
Rebecca Holder	Cult. I	75.0 hours
Kelly Jones	Cult. I	15.0 hours
LaVerne Kessel	Cult. I	115.0 hours
Valarie Magill	Cult. I	110.0 hours
Nancy Meise	Cult. I	101.5 hours
Sharon Parks	Cult. I	100.0 hours
Leona Ross	Cult. I	109.0 hours
Norma Simnitt	Cult. I	115.0 hours
Melissa Trump	Cult. I	78.0 hours
Tammy Ward	Cult. I	96.0 hours
Anita Wendt	Cult. I	100.0 hours

3 & 4. Fish production summary and egg take summary (the "final" on this section is the production summary done each year for John Kerwin and due August 15. For this effort, use the planting allotments plus or minus what you actually stocked).

# catchable, stocked	# fry stocked	# winter SH stocked
<i>115,449 - 59,640 LBS</i>	<i>346,462 - 11,133 LBS</i>	
# summer-run SH stocked	# lowland lakes stocked w/catchables	
<i>980,015 - 194,670 LBS</i>	<i>SIXTEEN</i>	
# lowland lakes stocked w/fry	# SH eggs taken	
<i>SIX</i>	<i>1,745,008</i>	
# resident trout eggs taken by species		

5. Maintenance and repairs completed (outside normal day-to-day repair and upkeep).

Replaced stop-logs behind revolving screens on three production ponds.

Cleaned, prepped and painted five batteries of troughs and four intermediate tanks in incubation room.

Cleaned, prepped and painted ceilings, hallways, walls and door frames in hatchery office, kitchen, lab and living quarters.

Repaired leak in hatchery building roof. The water was running down the inside of the wall separating the shop and saw room. As a result, the entire wall had to be replaced.

S&S Electric replaced an elbow and 3-point junction box on the underground electrical system that had burned.

Large cracks at several locations throughout the complex were sealed.

Replaced Koch rings in aeration towers on adult holding raceways.

Repaired heat-pump at residence #1.

Replaced garage entry and screen doors on residence #3.

6. Maintenance and repairs needed in immediate future

Repair chimney's at all five residences.

Paint remaining six batteries of troughs in incubation room.

Seal-coat asphalt on hatchery complex.

Install light fixtures over revolving screens on production ponds.

Replace 1984 Chevrolet 4x4 pickup.

Replace dam board on rearing ponds with a valve system.

Repair/replace fire and maintenance boxes.

Purchase "Park" model trailers for Cottonwood & Dayton Ponds.

Purchase electronic fish counters for acclimation ponds.

7. Vehicle Status (list all vehicle currently on-station)

<u>license #</u>	<u>vehicle type</u>	<u>current mileage</u>	<u>status</u>
I141296	Planting truck	13,550	Good
I142797	4x4 Pickup	62,707	Fair
I147227	Flatbed	26,866	Fair
I147175	Utility Truck	47,945	Fair
I157818	Flatbed	26,672	Good
I157879	S-10 Pickup	32,716	Good
I163482	1 ton Flatbed	5,472	Good
I165930	4x4 Utility Truck	601	Good
I118468	5,000 gal. Tanker	30,926	Good

8. Cooperative project list (list all coop projects with clubs or individuals includes juvenile derbies, net pens, imprint ponds, etc.)

<u>Individual or club names</u>	<u>project description</u>
Cottonwood Pond	Steelhead Acclimation/Imprint Pond - production included in above totals
Curl Lake	Steelhead Acclimation/Imprint Pond - transfer 65,001 (6.1/lb) smolts weighing 10,645 pounds. <u>Not included in above totals.</u>
Dayton Pond	Steelhead Acclimation/Imprint Pond production included in above totals
Dayton Juvenile Pond	Stock with 2,100 catchable rainbow trout.
State of Idaho	Rear and <u>adipose fin clip</u> 160,062 (40.9/lb) rainbow weighing 3,914 pounds for release in the spring. Rear and <u>right ventral fin clip</u> 57,280 (15.3/lb) rainbow weighing 3,744 pounds for release in the fall. This is an annual program.
State of Oregon	Rear 50,000 Wallowa strain steelhead annually for release in Wildcat Cr.

9. I&E efforts and across divisional support (includes sport club appearances, hatchery tours, newspaper contacts, etc., plus wildlife management assistance, control assistance, etc.)

Fabricated parts and pieces and help install a trap on the Touchet River in cooperation with Mark Schuck, Art Viola and Mike Keller.

In the spring and again in the fall, Department of Fisheries and Department of Wildlife Enforcement Agents used the hatchery batching quarters while performing "Emphasis" patrols.

Assisted Bob Peck, Fish Biologist and the Spokane Bass Club with the capture of smallmouth bass.

Hatchery manager took comp time to assist Wildlife Management Division with the capture of elk claws.

Newspaper contacts: Tri-City Herald - 12 contacts, Walla Walla Union Bulletin - 8 contacts, Spoesman Review - 3 contacts.

We gave twelve tours of the hatchery to a variety of groups including the Dayton and Kahlotus Schools, dignitaries from the Corps of Engineers, groups for the tour boat Taurus and other groups as well.

10. Special project/efforts list (includes on-station research, new treatment or equipment efforts, etc.)

Replaced 1985 3/4 ton Utility truck with a new 1-ton 4x4 truck. Additionally, a new 1,400 gallon stainless steel tank was purchased for our planting truck. The design for this tank is through the efforts of Harold Harty and Gary Griffen.

In cooperation with COE, who paid the bill, the HSQ2 main circuit breaker at the Marmes Pumping station was replaced. We also replaced the main circuit breaker on pump #8 at a cost of \$3,490.44.

The COE also paid for a new computerized telemetry alarm system that monitors 49 alarm points as well as pump functions. Technical Systems, Inc. of Lynnwood, WA installed the system. The cost of this project was \$48,198.00.