

HAGERMAN NATIONAL FISH HATCHERY

ANNUAL REPORT

1994



ANNUAL REPORT

FISCAL YEAR 1994

National Fish Hatchery
Station

Hagerman, Idaho
City, State

<u>Bryan Kerwin Uy</u>	<u>12-12-94</u>
Project Leader	Date
<u>Kathy Clemens</u>	<u>1-30-95</u>
Associate Manager/ Deputy Assistant Regional Director	Date
Original signed by <u>William F. Shake</u>	
Assistant Regional Director	Date

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INTRODUCTION

The Hagerman National Fish Hatchery (NFH) is located along the Snake River, about 30 miles west of Twin Falls, Idaho at a point 3 miles south and two miles east of Hagerman, Idaho. The hatchery was authorized by 46 Stat, 371 on May 21, 1930 and was established in 1932. Construction of the physical facilities commenced in 1932, and fish production began in 1933. The primary goal of the hatchery was the production of rainbow trout for stocking in Idaho, eastern Oregon and northern Nevada.

In the late 1970's the hatchery became part of the Lower Snake River Fish and Wildlife Compensation Plan; which was authorized by the Water Resources Development Act of 1976, Public Law 94-587. This plan was designed to mitigate for fish and wildlife losses caused by construction of four dams on the lower Snake River. For its part in the Compensation Plan, the hatchery's primary production goal was changed from rainbow trout to steelhead trout. The U. S. Fish and Wildlife Service entered into an agreement with the U. S. Army Corps of Engineers and Idaho Department of Fish and Game (IDFG) to annually rear 340,000 pounds of summer steelhead trout at 4 to 5 fish per pound (8 inches) at Hagerman NFH. To implement the new production goals, the hatchery was rebuilt and expanded, at a cost of \$7.0 million, by the Corps of Engineers from June 1982 through April 1984.

There are 102 outside raceway rearing units at the hatchery. Of these, 66 are devoted to Compensation Plan steelhead trout production and 36 are reserved for other programs which the Fish and Wildlife Service deems appropriate. Other major facilities include two hatchery-rearing buildings with a total of 66 rearing tanks, an administration-visitor facility building, a combination shop/four-stall garage, four residences, an oil-paint storage building, and two general storage buildings.

The hatchery's water supply is spring-fed at a constant 59 degrees Fahrenheit with a flow rate of approximately 30,000 gallons per minute. Water rights, under Idaho law, are both statutory and constitutional. A total of 17 spring sources are identified on the Fish and Wildlife Service property; several of which are dedicated for the adjacent Hagerman Lab.

STATION OPERATIONS

As part of the Lower Snake River Compensation Plan, the Hagerman NFH provides partial mitigation for summer steelhead losses due to the construction of four federal dams on the lower Snake River. Within this overall framework, specific goals and objectives for the hatchery's steelhead production are established through a high degree of interagency coordination. An adult return goal of 13,600 fish above Lower Granite Dam has been established.

A variety of basin-wide efforts have been implemented to coordinate anadromous hatchery production programs. These activities will continue to affect certain aspects of the production program, such as numbers and strains reared, time and size at release, and location of release. This will be particularly important as it relates to affects on recovery plans for anadromous species listed or proposed for listing under the Endangered Species Act (ESA).

Fish Culture Operations - Steelhead Trout

Brood Year 1994

The Brood Year (BY) 1994 production goal for Hagerman NFH is 1,156,969 smolts at a target size of 4.0 to 5.0 fish per pound. To meet this goal, 1,673,647 eyed steelhead trout eggs were received from IDFG's Sawtooth and Oxbow state fish hatcheries (SFH) during late May and early June, 1994. Approximately 362,118 were Pahsimeroi stock, 717,576 Oxbow (Hell's Canyon) stock, and 593,953 were Sawtooth stock. All eggs were "A" strain steelhead trout.

Brood Year 1993

The hatchery received 2,019,173 steelhead eggs from IDFG for BY93; two lots of Pahsimeroi stock and two lots of Sawtooth stock. All steelhead were of the "A" strain. Overall survival from egg to distribution was 91.9%. Feed conversion was 1.2, and the average cost per pound of gain was 26.2 cents. The fish were started on Rangen's softmoist diet until 500 fish per pound; fed Silver Cup Salmon diet until 35 fish per pound and finished on the Hagerman Steelhead contract diet supplied by Rangen Inc. of Buhl, Idaho. BY93 was the first group of fish produced under the bird exclusion netting.

Adipose fin clipping was supervised by personnel from IDFG and completed on November 2, 1993. The total adipose clip count was 1,917,269, for a gain of 20,423 fish over book records. Clipping took 16 working days and averaged 118,469 fish per day.

A surplus of 338,030 unmarked fish, averaging 23.85 fish per pound, were transferred to Niagara SFH in November 1993.

Periodic disease inspections by the Dworshak Fish Health Center did not detect any serious disease problems during BY93.

Distribution - Steelhead Trout

This year's steelhead releases were delayed several days past the scheduled March 25 date of release due to the fact that the National Marine Fisheries Service (NMFS) had not yet issued the biological opinion for hatchery actions under

Section 7 of the ESA. Although the Service had submitted its biological assessment by November 1, 1993, NMFS did not issue the opinion until April 7, 1994. The delay prompted the Service to seek approval from NMFS for an emergency release of the Hagerman NFH steelhead. Approval was given and releases began on April 4. Distribution of BY93 steelhead trout was completed on May 2, 1994. A total of 1,519,168 smolts weighing 329,538 pounds, and averaging 4.61 fish per pound, were released. The distribution process required 18 working days and 54 trips.

There were 235,788 fish released between April 4 and 8, 1994, at the confluence of the Lemhi and Salmon rivers. A total of 711,813 fish were transferred to raceways at Sawtooth SFH on April 13 through 21 as part of the acclimation study. A direct release control group of 61,321 fish was released into the Salmon River at Sawtooth SFH on April 29. An additional 182,083 fish were released into the Salmon River (below Morgan Creek) on April 11 and 12. The remaining 328,163 smolts were released at the Warm Springs Bridge on the Little Salmon River between April 22 and May 2, 1994.

Fish Culture Operations - Rainbow Trout

Hagerman NFH agreed to produce approximately 200,000 rainbow trout for the Duck Valley Indian Reservation. The agreement was arranged by the Dworshak Fishery Resource Office, and the cost was reimbursed by the Bureau of Indian Affairs.

Approximately 290,000 eggs of the Eagle Lake strain were received from Ennis NFH on January 11, 1994. Survival to distribution was approximately 90%. Overall food conversion was 1.0, and the cost per pound of gain was 37 cents for the rearing cycle.

Distribution - Rainbow Trout

Distribution to the Duck Valley Indian Reservation was completed on May 5, 1994. Approximately 264,243 trout, at 33.53 fish per pound, were released at two sites on the Reservation. Sheep Creek Reservoir received 132,570 fish, while Mountain View Reservoir received 131,673 fish.

Rainbow trout will not be reared by the hatchery in BY94.

Experiments and Special Studies

Coded-wire tagging (CWT) of BY93 smolts was supervised by IDFG personnel and completed on November 28, 1993. CWT fish were marked with a left ventral fin clip. Three raceways of fish were tagged for the Sawtooth SFH acclimation study (61,229 tags), and three raceways of fish were tagged as controls for this study (61,074 tags). Additionally, six raceways of fish were tagged for contribution studies; three raceways for release into the Salmon River below Morgan Creek (62,117 tags), two raceways for the Little Salmon River (41,094), and one raceway for the Salmon River near its confluence with the Lemhi River (21,355 tags). A total of 246,869 tagged fish were released.

Passively induced tags (PIT) were inserted into 1,300 fish that had CWTs. The acclimation study smolts, and their control group going to the Sawtooth SFH each received 300 PIT tags; the Salmon River group released below Morgan Creek received 300 PIT tags; the Salmon River group released at the confluence of the Lemhi River received 200 PIT tags; and the Little Salmon River group received 200 PIT tags.

During FY94 no studies were conducted regarding hatchery practices.

Other Items of Interest

Water Rights

The delay in release of fish during the spring of 1994 was confounded by the fact that the Brailsford Ditch Association (BDA) made a "nuisance" call for 15 Cubic feet per second (CFS) flow of water from the Len Lewis Spring on March 15. This required the hatchery crew to make significant adjustments to the steelhead feeding schedules and cleaning procedures. These efforts were of a short-term nature and were implemented to mitigate for the increase in hatchery flow index. By March 31, the flow index had reached 1.76; a flow index of 1.5 is considered the upper limit, with 1.2 being ideal. In spite of the delay and loss of water, the hatchery crew was able to accomplish fish distribution smoothly.

The call for water by the BDA marked a significant point in the historical operation of the hatchery. Typically, the hatchery had always used approximately 21 to 23 cfs of Len Lewis Spring through mid April without conflict with the irrigators. Even during the dry years (1987 - 1993) The irrigators did not use water in March. The earliest they had ever used the water was April 8, 1992. Several attempts to negotiate a solution with the BDA failed. An effort by the Department of Justice (DOJ) to seek relief through a motion to the Snake River Basin Adjudication Court was unsuccessful. The DOJ will be making the determination on what further actions will be made regarding the hatchery's water rights.

Personnel

Monte Peterson and Anila Allred were assigned to the Hagerman NFH when the Hagerman Field Station, Tunison Lab of Fish Nutrition, closed due to the transfer of the Service's Region 8 (research) to the National Biological Survey. They remain assigned to the lab facility.

Dan Magnuson transferred to Carson NFH in November as part of his Region I Fisheries Biologist Trainee rotational assignment.

Paul Hayduk entered on-duty January 24 as the GS-5 Fishery Biologist enrollee in the Region 1 Employee Development Program. Paul earned his B.S. Degree in Fisheries at Juniata College, Huntingdon, Pennsylvania. Prior to arriving at Hagerman, he was employed by the National Marine Fisheries Service, Marine Mammal Observer Branch, at the Ventura California Field Station.

Assistant Hatchery Manager, Tom Shaw elected to retire in May under the government's buy-out incentive program. He spent the last 13 years of his 30 year Fish and Wildlife Service career at Hagerman NFH. Tom's legacy is the number of fishery biologists that have been trained at Hagerman NFH in the science and art of fish hatchery production.

Marty Martindale, Fish Culturist, was separated from the Service on May 13.

Mr. Robert Burns, Assistant Project Leader at Mescalero NFH, was selected to fill the assistant manger's position.

Aquaculture Liaison

Project Leader Bryan Kenworthy continued to represent the Service at Idaho Aquaculture Association (IAA) meetings. Issues of importance to the industry include Idaho Department of Water Resources's proposed rules for conjunctive management of surface and ground water, the Middle Snake River Nutrient Management Plan, flow augmentation for downstream migration of juvenile salmon, aquifer recharge, and economic impacts of recovery efforts for listed species in the middle Snake River reach.

Interagency Coordination and Cooperation

Fiscal Year 1994 marked the initiation of a Hatchery Evaluation Team (HET). Team participation includes staff representing the hatchery, Dworshak Fish Health Center, Northern Idaho Fisheries Resource Office, and the IDFG. Two hatchery coordination meetings were held during the year. Minutes of the HET and coordination meetings are available for review.

During Fiscal Year 1994 we entered into a cooperative agreement with the College of Southern Idaho and the Idaho Aquaculture Association to implement a student internship program at the hatchery. Miss Shannan Pickup was selected as the first student intern. Shannan had previous experience with the Service in Utah at the Roosevelt Fish and Wildlife Management Assistance Office and at the Jones Hole National Fish Hatchery.

Because of their role as land managers for a portion of the hatchery grounds, defined under a cooperative agreement, we coordinated with IDFG regarding a hunting issue on hatchery property. Specifically, the bench area located on the northeast section of the hatchery property became a very popular spot for goose hunting during the 1993-94 season. The increased use by hunters resulted in several conflicts with adjacent property owners and subsequent calls to the hatchery complaining about the situation and observed abuses. Furthermore, some waterfowl hunters expressed their concern regarding the "firing line" situation that had developed. A closure of this area was adopted for the 1994-95 season.

A check for \$5,440.00 was presented to the Gooding County Clerk's office as part of the Service's revenue sharing program in lieu of taxes. During the latter part of FY94 the Division of Realty conducted an appraisal of the property to update its records.

Extremely dry and windy conditions prevailed in southern Idaho during the spring and summer of 1994; greatly increasing the fire danger on hatchery property. Because of the seriousness of the situation we entered into a Memorandum of Understanding (MOU) with the Shoshone District, Bureau of Land Management (BLM) for fire protection of the hatchery property and for staff training. Additionally we purchased a 1988 Ford F350 4x4 slip-on unit from BLM to replace the outdated and unsafe 3/4 ton military surplus vehicle that had been in use for fire suppression. One training session was provided during FY 94 under this MOU.

Hatchery personnel provided a tour of the hatchery facility to staff of the National Park Service - Hagerman Fossil Beds and to the staff of Niagara, Magic Valley, and Hagerman SFHs. Approximately 25 individuals attended.

Project leader, Bryan Kenworthy attended a meeting of area state and federal agencies held at the National Park Service, Hagerman Fossil Beds Monument Office in Hagerman. The meeting was convened to examine the potential of coordinating and improving outreach efforts being conducted in the Magic Valley area by the respective agencies.

Outreach

A variety of outreach efforts were initiated in FY94.

-An overview of the hatchery's program was presented to the Hagerman Valley Chamber of Commerce. The Chamber has agreed to include the hatchery's brochure as part of its visitor information package.

-Jim Kirsch conducted an Idaho Hunter Safety Certification program for the youth of the community. Eighteen young men and women successfully completed the course.

-On May 21, twelve local area Boy Scouts participated in an Eagle Scout Service Project at Oster Lake #1. The scouts removed approximately 200 pounds of trash and oiled the handicap access dock.

-Jim Kirsch, Bea Martindale and Bryan Kenworthy provided assistance to the Boise Ecological Services Office by staffing a Fish and Wildlife Service information booth at the Western Idaho State Fair.

-Bryan Kenworthy met with representatives of the Buhl, Wendell, and Hagerman school districts to finalize and sign a Challenge Grant Cooperative Agreement. The focus will be to develop an outdoor environmental education classroom at the hatchery.

-The Hagerman Valley Chamber of Commerce and National Park Service included the hatchery in their Hagerman Valley Bird Festival to showcase the recently completed bird enclosure.

-National Fishing Week activity consisted of conducting the Boy Scouts of America, Fishing Merit Badge activities for local area scouts.

Safety

On February 10, Jim Kirsch and Brian Clifford attended a four-hour employee safety seminar in Twin Falls. The Magic Valley Regional Medical Center and the Chamber of Commerce sponsored this program. A variety of topics were covered, including injury prevention, blood-borne pathogens, OSHA regulations, hearing protection, sexual harassment, and drugs in the work place.

The hatchery buildings and quarters were tested for radon under a region-wide program. Two of the residences Q4 and Q5 had higher than acceptable levels (.4). These two locations are to be retested.

Engineering

Two projects requiring regional engineering staff assistance were ongoing in FY94. The first project involves removal of leaking underground fuel and gas storage tanks. As of the end of FY94 the Service had expended \$141,345 towards clean up at Hagerman NFH (excavation of the tanks occurred during the spring of 1992). This year's efforts were directed at assessing the extent of ground water and soil contamination. A series of test wells and soil borings were completed, and two reports were submitted by the contractor (EnviroSearch, Boise ID). Additionally, a site clean up "action plan" was submitted to the Idaho Department of Environmental Quality for approval. Engineering has estimated that \$100K will be needed to complete the cleanup. The second project involved evaluation of the hatchery's domestic water supply for upgrade to comply with the Safe Drinking Water Act. Sverdrup Civil, Incorporated has been contracted to do the evaluation. An interim recommendation has been to use bottled water for domestic use.

Special Use Permits

Permit number 74802 (5 years) was issued to Mr. Alfred Sandy for use of hatchery property as unirrigated pasture. The land described in this permit is a small parcel of ground adjacent to Mr. Sandy's property and isolated from the main portion of the hatchery grounds by the county road.

Permit number 74801 (1 year) was issued to Mr. Butch Morris for his crossing of the hatchery property with a temporary irrigation pipeline. The pipeline completes fulfillment of a \$25K mitigation program enacted by the Idaho State Legislature as a negotiated settlement to provide irrigation water for the farm Mr. Morris operates in the Hagerman Valley. Implication of this program, if not

realized, was the possibility of a call for water by Mr. Morris that could result in a shutdown of ground water pumpers holding junior water rights.

Official Visitors

Ed Bowles	Idaho Department of Fish & Game, Boise, ID
Joe Chapman	Idaho Department of Fish & Game, Hagerman, ID
Jerry Chapman	Idaho Department of Fish & Game, Wendell, ID
Tom Rogers	Idaho Department of Fish & Game, Boise, ID
Steve Huffaker	Idaho Department of Fish & Game, Boise, ID
Jerry Mowery	Idaho Department of Fish & Game, Boise, ID
Bud Ainsworth	Idaho Department of Fish & Game, Filer, ID
Dave Cannamela	Idaho Department of Fish & Game, Boise, ID
Dean Rhine	Idaho Department of Fish & Game, Lewiston, ID
Rich Holman	Idaho Department of Fish & Game, Wendell, ID
Fred Partridge	Idaho Department of Fish & Game, Jerome, ID
Dave Parrish	Idaho Department of Fish & Game, Jerome, ID
Bill Gorgen	Idaho Department of Fish & Game, Jerome, ID
Bill Hamm	Idaho Department of Fish & Game, Hagerman, ID
Kevin Price	Idaho Department of Fish & Game, Hagerman, ID
Walt Rast	Idaho Department of Fish & Game, Hagerman, ID
Kent Hills	Idaho Department of Fish & Game, Filer, ID
Dwight Applanalp	Idaho Department of Fish & Game, Filer, ID
Roger Elmore	Idaho Department of Fish & Game, Wendell, ID
Jerry Chapman	Idaho Department of Fish & Game, Wendell, ID
Bruce Mcleod	Fish & Wildlife Service, Carson, WA
Dennis Macomber	Fish & Wildlife Service, Portland, OR
Donald Carr	Fish & Wildlife Service, Ahsahka, ID
Howard Burge	Fish & Wildlife Service, Ahsahka, ID
Ed Crateau	Fish & Wildlife Service, Boise, ID
Bill Lellis	National Biological Survey, Wellsboro, PA
Joe Lientz	Fish & Wildlife Service, Ahsaka, ID
Ken Peters	Fish & Wildlife Service, Ahsaka, ID
Bob Oser	Fish & Wildlife Service, Portland, OR
Randy Schmeller	Fish & Wildlife Service, Portland, OR
Joe Krakker	Fish & Wildlife Service, Boise, ID
Chuck Dunn	Fish & Wildlife Service, Portland, OR
David Leith	Fish & Wildlife Service, Longview, WA
Kathy Clemens	Fish & Wildlife Service, Portland, OR
Ray Jones	Fish & Wildlife Service, Ahsahka, ID
Susan Birch	Fish & Wildlife Service, Boise, ID
Alyson Beck-Hass	Fish & Wildlife Service, Boise, ID
Steve Duke	Fish & Wildlife Service, Boise, ID
Dr. Rick Barrows	Fish Tecnology Center, Bozeman, MT
Gary Fornshell	University of Idaho, Twin Falls, ID
Ernie Brannon	University of Idaho, Hagerman, ID
Terri Maret	US Geological Survey, Boise, ID
Charlie Smith	Rangen's Inc., Buhl, ID
Luaurie Fowler	Rangen's Inc., Buhl, ID
Chris Peterschmit	Rangen's Inc., Buhl, ID
Mike Gheleta	Department of Justice, Denver, CO
B. Scott-Brier	Office of the Regional Solicitor, Portland, OR
Chris Nelson	Silver Cup Inc., Murray, UT
Don Campbell	Idaho Aquaculture Assn., Buhl, ID
Ron Thomasson	Fish & Wildlife Service, Portland, OR
David Langman	Fish & Wildlife Service, Portland, OR
Greg McDonald	National Park Service, Hagerman, ID
Lupe Rodriquez	National Park Service, Hagerman, ID
Deena Easterday	National Park Service, Hagerman, ID
James Ward	National Park Service, Hagerman, ID
Paul Abbott	Idaho Power Company, Hagerman, ID

Deena Easterday National Park Service, Hagerman, ID
James Ward National Park Service, Hagerman, ID
Paul Abbott Idaho Power Company, Hagerman, ID

Training

Paul Hayduk, GS-5 Fishery Biologist, entered on duty January 23 as an enrollee in the Region 1 Employee Development Program.

Brian Clifford Woodworking, 2/1/-4/12/94, Twin Falls, ID
Motor Vehicle OSHA Workshop, 2/16/94, Twin Falls, ID
Operator CPR, 2/19/94, Gooding, ID
Professional Truck Drivers Course, 5/16-6/3/94, Twin Falls, ID

Paul Hayduk Intro to WordPerfect 5.1, 2/24-3/31/94, Twin Falls, ID
Fisheries Intermediate Lotus 1-2-3, 2/23-3/30/94, Twin Falls, ID
Biologist New Employee Orientation, 8/12-25/94, Portland, OR

Mike Jacobson First Aid, 3/19/94, Gooding, ID
Motor Vehicle OSHA Workshop, 5/18/94, Twin Falls, ID
Operator

Bryan Kenworthy Intro to Windows, 8/31-9/28/94, Wendell, ID
Project Leader

Jim Kirsch Electrical Apprentice Course, 8/31-12/12/93, Twin Falls, ID
Maintenance Electrical Maintenance, 1/5-6/94, Meridian, ID
Worker OSHA Workshop, 2/16/94, Twin Falls, ID
Water & Wastewater for Operators, 9/26-29/94, Bozeman, MT

Dan Magneson Intro to DBase III Plus, 9/30-10/29/93, Twin Falls, ID
Fisheries New Employee Orientation, 10/25-29/93, Portland, OR
Biologist

Bea Martindale Intro to DBase III Plus, 9/30-10/23/93, Twin Falls, ID
Fisheries Mgt. Skills for Assistants, 1/21/94, Boise, ID
Prg. Assistant IRM & FSS Training, 6/20-21/94, Portland, OR
Intro to Windows, 8/31-9/28/94, Wendell, ID

Division of Engineering conducted a two day water flow measurement course for hatchery and lab staff. Also in attendance were Service personnel from Boise Ecological Services, and the Malhuer and Deer Flat national wildlife refuges.

Bryan Kenworthy and Dan Magneson, Fishery Biologist Trainee, toured several aquaculture facilities in the Magic Valley. In addition to fish rearing facilities, a tour of the Clear Springs trout Company's Research Lab and Rangen's feed mill were made.

HAGERMAN LAB

At the end of FY93 the Hagerman Field Station, Tunison Lab of Fish Nutrition, operated by Fish and Wildlife Service, Research and Development (Region 8), was closed. This facility was not included with the transfer of Region 8 to the National Biological Survey (NBS). At that time, the facilities and two of the personnel were transferred to Region 1 Fisheries. The lab and two staff were subsequently assigned to the Hagerman NFH in FY 1994. The Lower Snake River Compensation Plan has provided \$70,000 for FY94 operation. This level of funding is sufficient to pay the salaries for the two staff members and a minimum of operating costs.

This status of the lab is interim and is designed to allow for a process of deciding what role, if any, the lab should take on and to develop a source of funding for that program. To this end, a scoping team was formed and a briefing document was submitted to the Director. In response, the Director made no commitment to provide Service funding, but did support recommendations to keep the facility operational, thus allowing Region I Fisheries to pursue other sources of funding. Negotiations have been underway with the University of Idaho informing it of the situation and inviting its participation through a formal agreement.

On-going studies that had been initiated prior to the lab's transfer continued without interruption. They included the following:

- Comparison of commercial diets for sturgeon culture. This was a cooperative effort with the College of Southern Idaho, the aquaculture industry, and IDFG.
- Evaluation of dietary amylase (University of Idaho).
- Evaluation of phosphorous levels in the diet of rainbow trout. This study was funded under the Western Region Aquaculture Consortium.
- Evaluation of diet for the control of fin erosion in steelhead. This is a cooperative effort with Bozeman Fish Technology Center and the Wellsboro Center, NBS.

Other activities included the marking of sturgeon with PIT tags prior to release in the Middle Snake River Reach. Students from the CSI Fisheries Technology program conducted the marking. IDFG transported the fish to the release sites.

A two-week educational program was conducted by the University of Idaho for two students from Pakistan.

STATION CYCLICAL MAINTENANCE/CONSTRUCTION

Cyclical Maintenance

Rehabilitation

Damboards in Steelhead raceways replaced.	\$7251.16
Solid waste pumped from settling basin #2.	\$8320.00
Quarters #5 Interior painted and repair to bathroom.	\$2930.93
Quarters #4 repair of tub surround	\$ 63.00
Quarters #6 Interior painted.	\$1076.00
Replaced picture window.	\$ 530.00
Quarters #7 Interior painted.	\$1275.00
Installed automatic Garage door opener Hatchery #2.	\$1084.00
Installed dish washers at all quarters.	\$ 877.80
Installed motion detector lights at all four quarters.	\$ 600.00
Installed motion detector lights at display pond, oil building, fuel point, and at both ends of shop.	\$ 483.00
Painted outside trim facade on administration building and Hatchery #2	\$1380.00

Construction

None conducted during this fiscal year.

Equipment Purchases

Two 486dx Microcomputer Systems:	\$7524.00
- one with modem for office administration	
- one with dot matrix printer for fish production	
Marsh McBirney Model 2000 Flowmate Portable Flow Meter.	\$3340.00
Cannon Fax-1775	\$2562.00
Sharp SF-2022 Copy Machine	\$4868.64
Ford F350 One Ton 4X4 Slip-on Unit. (Bureau of Land Management vehicle residual)	\$7900.00
Stihl Chain Saw	\$ 509.97
Dayton Air Compressor	\$ 717.40
Goldblatt Power Trowler (modified as pond cleaner)	\$1593.75
Delta Band Saw	\$1098.43

FUTURE OUTLOOK

PRODUCTION

Constraints imposed by the ESA on hatchery steelhead releases may affect Hagerman NFH production activities. In this regard, it will be paramount to continue a high level of interagency coordination for the hatchery's production activities and commitments.

SAFETY

Continued emphasis will be placed on factors relating to safety and health in the work place.

OUTREACH

An increase in visitor activity is anticipated over the next several years. Plans are underway to paint and/or replace signs directing visitors to and around the hatchery. Increased emphasis may be needed for control of visitor access and for facility security after normal working hours.

More effort will be placed on interaction with school and civic youth groups in an effort to develop environmental awareness in the Magic Valley Communities.

HAGERMAN LAB

The future operation of the lab will depend on the extent of outside interest for its operation. Partnerships with other federal agencies, state agencies, and universities, through the use of Cooperative Agreements and Memorandums of Understanding, will provide the best mechanism for this.

HATCHERY PRODUCTION SUMMARY (Intensive Culture)

Fiscal Year: 1994

Station: Hagerman, ID NFH

Species/Strain and Lot Number		Fish on Hand Last Day of Period						To Date This Fiscal Year			
		Number	Weight	Length	D.I.	F.I.	Weight Gain	Feed Expended	Conversion	Percent Survival	
		3	4	5	6	7	Pounds	Costs			
1	2						8	9	10	11	
S TT-PAW-93-ID-1(60)	-0-	-0-	-0-	-0-	-0-	91,013	102,368	22,688	1.12	96.0	
S TT-SAW-93-ID-1(61)	-0-	-0-	-0-	-0-	-0-	59,476	75,331	16,331	1.27	101.2	
S TT-PAW-93-ID-2(62)	-0-	-0-	-0-	-0-	-0-	31,425	37,932	8,346	1.21	95.5	
S TT-SAW-93-ID-2(63)	-0-	-0-	-0-	-0-	-0-	128,415	156,527	34,008	1.22	99.9	
S TT-ELD-94-ID(64)	-0-	-0-	-0-	-0-	-0-	7,880	7,430	2,731	1.15	95.0	
S TT-PAW-94-ID(65)	345,814	6,392	3.681	.09	.31	6,260	6,862	2,350	1.10	97.3	
S TT-HCW-94-ID(66)	661,363	12,862	3.746	.09	.32	12,569	12,115	4,186	.96	97.7	
S TT-SAW-94-ID(67)	510,017	8,328	3.533	.08	.27	8,142	8,283	2,905	1.02	92.8	
Totals/Averages	1,517,194	27,582				345,180	406,848	93,545	1.18	96.9	

FIVE YEAR HATCHERY PRODUCTION SUMMARY

Station: Hagerman, ID NFH

		Fiscal Year				
		1994	1993	1992	1991	1990
I. Fish Production Data						
Intensive Culture:						
Fish Weight Gain (pounds)		345,180	321,735	316,697	349,782	404,599
Fish Numbers		1,517,194	1,894,680	1,744,945	1,586,078	2,151,246
Percent Survival		96.9	94.5	90.6	90.2	92.2
Feed Conversion		1.18	1.29	1.23	1.39	1.27
Extensive Culture:						
Fish Weight Gain (pounds)						
Fish Numbers						
Percent Survival						
Pounds per Acre						
II. Broodstock Production Data:						
Number of Females Spawned						
Number of Eggs						
Number of Fish						
III. Management Data:						
Full-Time Equivalents		8.5	7.3	7.6	8.0	8.0
Operational Costs		527,808	454,903	618,942	472,463	494,324
Vehicle/Equipment Costs (Items over \$1,000)		47,380	47,132	6,258	23,655	0
Cyclical Maintenance Costs		36,449	17,029	4,000	0	37,394
Quarters Costs		11,655	9,935	0	9,725	7,120

FISH HEALTH ACTIVITIES SUMMARY -
NATIONAL FISH HATCHERY

Station: Hagerman, ID NFH

Fiscal Year: 1994

Problem/ Incident/Activity 1	Species 2	Therapeutic Treatment 3	Results/Comments 4
Egg Disinfection	Rainbow Trout	PVP Iodine at 100	Routine Disinfection
	Steelhead Trout	PPM for 10 minutes	

Chemical Summary:

Chemical: PVP Iodine	Purpose: Egg Disinfection	Total Amount Used: 5 gals.	Total Cost: \$ 70.34
Anti-Foam FG-10	Fish Distribution	40 lbs.	\$121.74
Pro Polyaqua	Fish Distribution	5.2 gals.	\$120.23
Chlorine	Routine Disinfection	2 gals.	\$ 14.40

Station: Hagerman, ID NFH

OPERATIONS/MAINTENANCE COST DATA

Fiscal Year: 1994

Funding Source				
Operations (Fisheries)	Cyclical Maintenance (Fisheries)	Quarters Maintenance	Other Funding	
1 4710	2 4710	3 8610	4 1261	
362,055				
2,447				
10,069				
967				
1,001				
22,169				

1. Salaries, Permanent (Including Benefits):

2. Salaries, Temporary (Including Benefits):

3. Operating Costs:

A. Utilities

1. Telephone

2. Electricity

3. Heating Oil

4. Natural Gas

5. Other

B. Vehicle Maintenance

1. Distribution Vehicles

Total Mileage:

Station: Hagerman, ID NFH

OPERATIONS/MAINTENANCE COST DATA

Fiscal Year: 1994

Funding Source				
	Operations (Fisheries)	Cyclical Maintenance (Fisheries)	Quarters Maintenance	Other Funding
	1 4710	2 4710	3 8610	4 1261
3. B. Vehicle Maintenance (continued)	3,446			
2. Non-Distribution Vehicles	17,737			
Total Mileage:	3,074	603		
C. Fuel for Vehicles/Equipment				
D. Supplies				
1. Fish Food	86,325			
2. Chemicals/Drugs	205			
3. Fertilizer				
4. Tags and Tagging Supplies				
5. Office Supplies/Custodial/Other Supplies	11,347			
E. Travel	5,454			

Station: Hagerman, ID NFH

OPERATIONS/MAINTENANCE COST DATA

Fiscal Year: 1994

Funding Source				
Operations (Fisheries)	Cyclical Maintenance (Fisheries)	Quarters Maintenance	Other Funding	
1 4710	2 4710	3 8610	4 1261	
9,338				
8,477				
15,000				
519,205	603			
47,380				
21,992	14,457			
		11,655		
69,372	14,457	11,655	8,000	
588,577	15,060	11,655	8,000	

\$ 623,292

- 3. F. Moving Expense
- G. Miscellaneous (List) Leased Trucks
- Dept of Justice (Water Litigation)
- 4. Operations (Total: Lines 1, 2, 3A-G)
- 5. Vehicles/Equipment Purchased (Over \$1,000)
- 6. Cyclical Maintenance
- 7. Quarters Maintenance
- 8. Total Maintenance (Total: Lines 5, 6, and 7)
- 9. Column Totals (Total: Lines 4 and 8)
- 10. Total Expenditures (Add Totals of Column 1-4)

REPORT OF STATION PERSONNEL

Station: Hagerman, ID NFH

Fiscal Year: 1994

Part I - Permanent Personnel (FTE's: 8.5)					
Name Of Employee	Functional Title	Grade	Period Worked	Remarks	
Bryan R. Kenworthy	Supervisory Fish. Biol.	GS 12	93/10/1-94/9/30		
Harry T. Shaw	Supervisory Fish. Biol.	GS 11	93/10/1-94/4/30	Retired	
Paul A. Hayduk	Fishery Biologist (Mgmt)	GS 07	94/1/24-94/9/30	Trainee	
Beatrice M. Martindale	Fisheries Pgm. Asst.	GS 06	93/10/1-94/9/30		
M. J. Kirsch, Jr.	Maintenance Worker	WG 08	93/10/1-94/9/30		
Michael G. Jacobson	Motor Vehicle Operator	WG 08	93/10/1-94/9/30		
Brian P. Clifford	Motor Vehicle Operator	WG 08	93/10/1-94/9/30		
Part II - Temporary Personnel (FTE's:)					
Name Of Employee	Functional Title	Grade	Period Worked	Remarks	

REPORT OF STATION PERSONNEL

Station: Hagerman, ID NFH

Fiscal Year: 1994

Part I - Permanent Personnel (FTE's:)					
Name Of Employee	Functional Title	Grade	Period Worked	Remarks	
Montie C. Peterson	Bio Sci Lab Technician	GS 07	93/11/14-94/9/30		
Anila C. Allred	Bio Sci Lab Technician	GS 07	93/11/14-94/9/30		
Samuel D. Martindale	Motor Vehicle Operator	GS 08	93/10/1-94/5/13	Terminated	
Part II - Temporary Personnel (FTE's:)					
Name Of Employee	Functional Title	Grade	Period Worked	Remarks	

PUBLIC RELATIONS

Station: Hagerman, ID NFH

Fiscal Year: 1994

1. Presentations:	Number of Groups	Number of People
On Site	<u>7</u>	<u>280</u>
Off Site	<u>1 (career day)</u>	<u>50</u>
2. Number of Visitors:		
Official		<u>56</u>
Public		<u>17600</u>
3. Other Public Relation Activities:		
Type of Activity		
<u>See "Outreach" section in text</u>		
<u> </u>		
<u> </u>		

Remarks:

The hatchery maintains a small park area with picnic tables and a display pond. The area is used by visitors and small groups on a first-come basis. This year the local chapter of the Rocky Mountain Elk Foundation had its board of directors meeting at the park.

Additionally, a volunteer visitor host program was initiated to accommodate the visitor load during the summer months and to remove litter at Oster Lake #1. The hatchery provided a trailer space and utility hook-up for the services provided by the volunteers.

APPENDIX

THE HATCHERY CREW

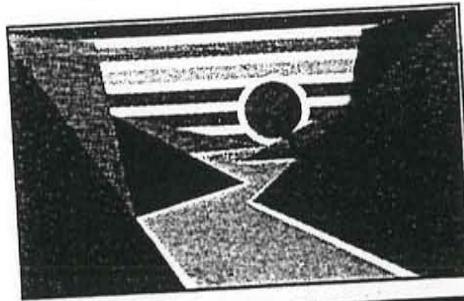


Pictured from left to right: Paul Hayduk, Bryan Kenworthy, Mike Jacobson, Jim Kirsch, Brian Clifford, Bea Martindale, Shannan Pickup

THE HAGERMAN LAB



Anila Allred and Montie Peterson



Twin Falls, Idaho/89th year, No. 78

Farmers win water fight with federal fish hatchery

By N.S. Nokkentved
Times-News writer

TWIN FALLS — An assistant judge Friday denied a request to halt delivery of water in a dispute between two water users near Hagerman.

Special Master Terrence Dolan of the 5th District Court denied a U.S. Fish and Wildlife Service fish hatchery's request for a temporary restraining order against the state Department of Water Resources.

A special master functions like a magistrate judge. Dolan was hired to assist

Judge Daniel Hurlbutt, who is presiding over the Snake River Basin Adjudication. Hurlbutt's court handles all water-right squabbles in southern Idaho.

Fish and Wildlife had sought to prevent Water Resource from delivering water to the Brailsford Ditch. Len Lewis Spring feeds the ditch and supplies the National Fish Hatchery, operated by the Fish and Wildlife south of Hagerman.

The eight water users on the ditch had asked the department to deliver their water — a total of about 15 cubic feet per second.

Please see FIGHT/A2

Fight

Continued from A1

Water user Bill Brailsford, a sheep rancher, said water delivery to the irrigation ditch has historically started on March 15. The hatchery has used the water during the rest of the year.

Fish and Wildlife wanted it until April 15, Brailsford said. The water is used to raise steelhead trout.

Water rights on the ditch are "senior" to the hatchery's right and therefore take precedence under Ida-

ho water law, which is based on the doctrine of "prior appropriation." The doctrine says that the first to put the water to "beneficial use" would retain a right over later users.

"We got the call," said David Shaw, adjudication bureau chief for Water Resources. The local water master delivered the water. That's the department's job to deliver water, Shaw said.

But Fish and Wildlife asked the court for a temporary restraining order halting that delivery, which was denied Friday afternoon.

A hearing on a preliminary injunction sought by Fish and Wildlife is set later next week, Shaw said.

Water in the Brailsford Ditch is used for stock and irrigation of pas-

ture and row crops, Brailsford said.

But the issue should not be confused with other water rights issues that have been brewing lately and involve the interaction of groundwater and surface water rights.

The issue is not one of supply.

"The water is there," Brailsford said. This is an issue of who gets to use the water, and when they get to use it.



Tom Shaw takes buy out.



Marty Martindale moves on.

FIRE PREVENTION AND AWARENESS



1989 4x4 Ford 3/4 ton slip-on unit



Fire shelter demonstration.

ENVIRONMENTAL SITE ASSESSMENT OF UNDERGROUND STORAGE TANK CONTAMINATION



Test well and soil boring



Hydrocarbon sampling

VOLUNTEER HOST PROGRAM



Phyllis and Jerry Molof



Betty and Terry Defibaugh

BOY SCOUTS OF AMERICA EAGLE SCOUT PROJECT



Troops 107 and 108 work together to remove trash from Oster Lake #1



Scouts apply linseed oil to handicap access fishing pier

SPECIAL USE PERMITS



Dry land pasture used by Alfred Sandy



Butch Morris pump station and pipe line

NEW VEHICLE



2x4 1994 Ford 1/2 ton pickup.

PUBLIC USE



Opening Day - Oster Lake #1