

A N N U A L   R E P O R T

F I S C A L   Y E A R   1 9 8 6

H A G E R M A N ,   I D A H O   N F H

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ANNUAL REPORT  
FISCAL YEAR 1986  
HAGERMAN, IDAHO NFH

INTRODUCTION

The Hagerman National Fish Hatchery produced steelhead trout for the Lower Snake River Compensation Plan (Public Law 94-587). Rainbow trout were also produced to offset lost production at Dworshak NFH; due to IHN virus problems at Dworshak. The U.S. Army Corps of Engineers, Walla Walla District, is continuing their supervision of the completion contract at Hagerman NFH.

MAJOR ACCOMPLISHMENTS

The goal of releasing 340,000 lbs. of steelhead smolts at the size specified by Idaho Fish and Game was achieved. The number of "B" strain eggs available was short and the difference was made up in "A" strain eggs to take advantage of the available space.

A full-color, six page brochure was printed comparing the life cycle of a wild anadromous fish to that of a hatchery-reared fish, and which also notes Hagerman NFH's role in restoring steelhead to the Snake River drainage.

STATION OPERATIONS

Fiscal

Expenditures for Fiscal Year 1986 totaled \$490,359. Total cost to produce one pound of fish was \$1.36. Labor costs totaled \$266,228. Labor cost to produce one pound of fish was \$0.73. Fish transport expenses were \$34,594 resulting in a transport cost of \$0.10 per pound of fish transported and released.

LABOR

Total full-time equivalents (FTE's) for Fiscal Year 1986 were 9.3. One temporary truck driver was hired for the duration of the distribution season. An Idaho Department of Fish and Game employee was assigned to Hagerman NFH to assist with fish production from October to May. This employee will eventually be assigned to the LSRCP Magic Valley Hatchery upon its completion.

Fish Cultural Operations

Species reared this year were steelhead and rainbow trout.

Broodyear 1985 steelhead smolt production was very successful with distribution numbers falling within 1.8% of planned release numbers. With the use of computer projected feed rates the size requested by Idaho Department of Fish and Game, (4-5/lb.), was achieved. Smolt size at release was 4.45/lb. with a feed conversion of 1.22. Fish health was excellent up to the end of December when Enteric Redmouth bacteria were isolated in both lots (16 and 17) of "A" strain steelhead. All fish on station were hand fed Romet 30 for seven days. The treatment was effective and mortality returned to normal.

Broodyear 1986 steelhead eggs were received from Sawtooth and Pahsimeroi hatcheries. IHN virus was isolated from a single tank of "B" steelhead in June. The virus was not detected again in Fiscal Year 86.

The rainbow program was effective in meeting the requested size and number for release. The Shasta strain rainbow eggs were received from Ennis NFH and performed very well with a conversion of 1.21. Overall survival from eyed egg to release was 68.8%. No health problems were observed during the rearing period.

Distribution

1,527,334 steelhead smolts at 4.45/lb. and 343,267 lbs. were distributed to three sites. The distribution breakdown is as follows:

Salmon River - "A" strain - 699,715 - 4.45/lb. = 157,285 lbs.

Little  
Salmon River - "A" strain - 302,303 - 4.10/lb. = 73,650 lbs.

East Fork  
Salmon River - "B" strain - 525,316 - 4.67/lb. = 112,332 lbs.

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Total 1,527,334 - 4.45/lb. = 343,267 lbs.

Total distribution was accomplished in 35 days requiring 70 trips covering 27058 miles.

The distribution ratio was 65.5% "A" strain smolts and 34.4% "B" strain smolts.

156,733 rainbow trout at 10.89/lb. and 14,390 lbs. were distributed to Dworshak Reservoir. Four trips totaling 3,484 miles were required for the distribution.

#### COOPERATION WITH OTHER AGENCIES

Two coordination meetings were held during the year with Idaho Fish and Game to facilitate the hatchery operation. Full assistance was given to Idaho Fish and Game personnel during fin clipping, coded-wire tagging and freeze branding operations. Close contact was maintained with the Corps of Engineers relative to the completion contract.

#### COMPLETION CONTRACT

A major accomplishment under the completion contract was the installation of a 36" water supply line from the main spring collection facility to the steelhead raceways. This will provide greater flexibility in management of the hatchery.

Another major accomplishment was modification of the drains of the third deck of trout raceways. The previous system was inefficient and poorly designed.

The pressurized line to Hatchery I was replaced by an 8" gravity flow line. This will eliminate a supersaturation problem experienced with the old line.

Two electrical utility vaults were raised above the surrounding pavement to alleviate flooding of the vaults which occurred during lawn irrigation.

A below-ground sprinkler system was installed to replace the old riser sprinklers.

A cyclone fence was installed around the sedimentation ponds in the interest of public safety.

### CYCLICAL MAINTENANCE AND REHABILITATION

The existing fireplace screens and glass doors in the four residences were replaced with energy efficient air-tight glass door systems.

The bathrooms were remodeled in three of the residences.

All four residences were re-sided with insulated steel siding for energy conservation and low maintenance.

### YOUTH PROGRAMS

The station hosted a Youth Conservation Corps program which accomplished grounds and building maintenance. Administrative support (hiring, payrolls, purchasing) was provided to the nearby Hagerman state fish hatchery YCC program.

DEPARTMENT OF THE INTERIOR  
U.S. FISH AND WILDLIFE SERVICE

HATCHERY PRODUCTION SUMMARY

Station:

HAGERMAN NFH

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Period Covered:  
October 1, 1985

through

September 30, 1986

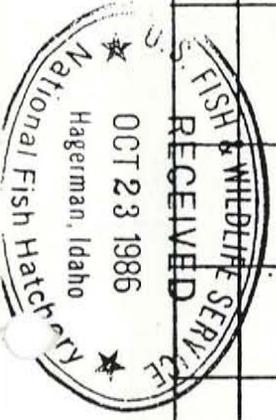
Species and Lot	Number	Weight	Length	Flow Index:		Pounds	Cost	Con- ver- sion	Unit Feed		T.U. per Inch	T.U. to Date	Length increase 30-day Month Inches
				Fish shipped this F.Y.	Gain this F.Y.				Cost	Per lb.			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
STT 5-UID-16	0.0	0.0	8.862	359.1	64,129	83,355	18,477.39	1.30	0.29	60.89	22.28	175.23	0.000
STT 5-UID-17	0.0	0.0	8.895	917.0	156,948	181,047	40,802.96	1.15	0.26	54.35	19.18	151.70	0.000
STT 5-UID-18	0.0	0.0	8.575	464.3	90,255	114,530	26,916.13	1.27	0.30	60.38	20.12	151.70	0.000
STT 5-UID-19	0.0	0.0	8.536	61.0	12,196	14,447	3,329.13	1.19	0.27	54.77	19.91	148.62	0.000
RBT 6-EN-20	0.0	0.0	5.683	156.8	14,326	17,300	3,872.30	1.21	0.27	24.72	13.32	64.00	0.000
STT 6-UID-21	362.8	10,260	4.323	0.0	10,118	9,599	2,549.27	0.95	0.25	7.05	19.50	66.00	0.743
STT 6-UID-22	591.9	13,954	4.069	0.0	13,616	14,908	4,020.54	1.10	0.30	6.85	17.87	54.50	0.943
TOTALS													
AVERAGES													

Density Index: 0.090

Flow Index: 0.569

Total Flow: 18,325

RI-117



DEPARTMENT OF THE INTERIOR  
U.S. FISH AND WILDLIFE SERVICE

HATCHERY PRODUCTION SUMMARY

Station:

HAGERMAN NFH

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Period Covered:  
October 1, 1985

through

September 30, 1986

Density Index:	Species and Lot	Fish on hand End of Month	Number	Weight	Length	Flow Index:		Fish Feed Expended		Total Flow:			T.U. per Inch	T.U. to Date	Length increase 30-day Month Inches
						Fish shipped this F.Y.	Gain this F.Y.	Pounds	Cost	Con- version	Unit Feed Cost Per lb.	Feed Cost Per 1000			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
	SST 6-UID-23	881.0	17,620	3.852	0.0	17,361	15,703	4,798.27	0.90	0.28	5.45	16.90	49.50	0.983	
	TOTALS	1,835.8	41,834		1,958.2	378,949	450,889	104,765.99							
	AVERAGES								1.19	0.28	27.61	18.63	107.66	0.390	

Marked Releases									
Date	Species/Lot	Strain	River	Location	CWT	No. Tagged Released	Freeze Brand	No. Branded Released	Purpose
4/24	Stc Lot-16	A	Little Salmon	Hazard Cr.	10-28-42	35,475			
4/24	"	"	"	"	"	8,650			Hatchery Evaluation & Contribution
4/10-11	Stc Lot-17	A	East Fork Salmon	Sawtooth FH	10-28-05	9,450			"
4/10-11	"	"	"	"	10-28-01	39,125			"
4/01-03	Stc Lot-18	B	East Fork Salmon	Fish Trap	10-28-44	25,325			"
4/08-10	Stc Lot-17	A	East Fork Salmon	Sawtooth FH	10-28-29		LD** POS2	52,300	Migration Timing
4/07-09	Stc Lot-18	B	East Fork Salmon	Fish Trap			LD** POS4	51,325	