

A36-00128	1	36-00128	(BSC) Bickle Spring	2 cfs
A36-15444	2	(J)	~~Bickle Spr.~~ Bickel Spr.	<u>20.3 cfs</u>
			(7.7 under 36-2308)	36-4069, 4252, 4253
A36-02308	3	36-2308	BSC	7.7 cfs
A36-00129	4	36-00129	Spr #10	1.0 cfs
A36-15445	5	(J)	#10	<u>0.6 cfs</u>
			(36-4069-4252-4253)	
A36-00130	6	36-00130	Riley Creek	1.5 cfs
A36-15446	7	(J)	Riley Creek	<u>4.5 cfs</u>
			(4069-4252-4253)	
A36-00131	8	36-00131	spr. #8 #9	1.0 cfs
A36-15447	9	(J)	spr. #8 #9	<u>0.5 cfs</u>
			(4069-4252-4253)	
A36-00132	10	36-00132	#11 #12 #13	6.0 cfs
A36-15448	11	(J)	Main Spr. #13 #14	<u>24.8 cfs</u>
			(4069-4252-4253)	
A36-15449	12	(J)	#15	<u>4.5 cfs</u>
			(4069-4252-4253)	
A36-15450	13	(J)	4069 #16 AKA LEN LEWIS	<u>24.0 cfs</u>
			(4069-4252-4253)	
A36-15451	14	(J)	(4069-4252-4253) #17	<u>4.9 cfs</u>
A36-15452	15	(J)	Smith Springs	4.0 cfs

(60.10)
(84.10)
MICROFILMED
JAN 25 1993



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000

Phone: (208) 327-7900 FAX: (208) 327-7866

Steve Clelland - S

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

October 1, 1992

RECEIVED

OCT 05 1992

Department of Water Resources
Southern Region Office

Jack Haugrud
US Department of Justice
Env. & NR Div. Gen. Lit. Sec.
PO Box 663
Washington, DC 20044-0663

RE: Snake River Basin Adjudication (SRBA)
Notices of Claim to a Water Right Nos.
A36-00128, A36-00129, A36-00130, A36-00131, A36-00132,
A36-02038, A36-15444, A36-15445, A36-15446, A36-15447,
A36-15448, A36-15449, A36-15450, A36-15451 & A36-15452

Dear Mr. Haugrud:

Regarding the above referenced Notices of Claim filed in the name of USDI Fish and Wildlife Service, you received a letter from Steve Clelland of our Department requesting Evidence of Priority by October 12, 1992.

In addition, please supply us with maps, drawings, or other material describing the pond and raceway volumes as of the dates claimed. This information may be in the form of maps, engineering design specifications, or other documentation that supports the development of the facility volumes as of the dates shown in the Date of Priority on the Notices of Claim.

The decreed rights were originally decreed for irrigation purposes. Please supply us with documents supporting the change in the nature of use including the dates when the changes occurred.

Regarding A36-15452, please clarify the method of diversion used to divert the spring and seeps to beneficial use. The claim does not describe a diversion system.

Please submit this information by October 12, 1992 directly to Steve Clelland, IDWR - Southern Region, 222 Shoshone St.,

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JAN 25 1993

Jack Haugrud
October 1, 1992
Pgae 2

East, Twin Falls, ID 83301. Please call either me or Mr. Clelland if you have any questions or need assistance.

Sincerely,

Helen Harrington-Thornton
Helen Harrington-Thornton
Senior Water Resource Agent

HHT: Clelland

CC: USDI Fish & Wildlife Service
911 NE 11th Ave.
Portland, OR 97232-4181

USDI Fish & Wildlife Service
Hagerman National Fish Hatchery
Rt. 1, Box 256
Hagerman, ID 83332

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JAN 25 1993



State of Idaho

DEPARTMENT OF WATER RESOURCES

Southern Region, 222 Shoshone St. East, Twin Falls, Idaho 83301 (208) 736-3033

CECIL D. ANDRUS
Governor

SEPTEMBER 28, 1992

R. KEITH HIGGINSON
Director

JACK HAUGRUD OR G GARVER OR D ZANE
US DEPT OF JUSTICE
ENV & NR DIV GEN LIT SEC
PO BOX 663
WASHINGTON DC 200440663

RE: DATA ENTRY RECORDS & EVIDENCE OF PRIORITY

A36-00128	A36-15444
A36-00129	A36-15445
A36-00130	A36-15446
A36-00131	A36-15447
A36-00132	A36-15448
A36-02038	A36-15449
	A36-15450
	A36-15451
	A36-15452

DEAR SIRs,

PLEASE FIND ENCLOSED COPIES OF THE COMPUTER GENERATED CLAIMS AS THEY APPEAR IN OUR DATA BASE. PLEASE REVIEW THESE RECORDS FOR ACCURACY AS THEY ARE BASED ON THE CLAIMS YOU SUBMITTED IN THE SNAKE RIVER BASIN ADJUDICATION.

YOUR RECORDS INDICATE THE CLAIMS LISTED ABOVE, IN THE RIGHT HAND COLUMN, ARE BASED UPON A "BENEFICIAL USE" OF WATER. FOR WATER RIGHTS OF THIS TYPE, THE CLAIMED "PRIORITY DATE" MUST BE SUBSTANTIATED WITH SUPPORTING EVIDENCE.

BEFORE THE DEPARTMENT CAN MAKE A RECOMMENDATION TO THE COURT TO DECREE THE CLAIM, SOME EVIDENCE OF THE PRIORITY DATE MUST BE SUBMITTED. WE ARE ENCLOSING A BROCHURE OUTLINING THE TYPES OF EVIDENCE YOU MAY SUBMIT. WE REQUEST THAT YOU SUBMIT YOUR EVIDENCE OF PRIORITY AS SOON AS POSSIBLE. IF WE DO NOT RECEIVE THE REQUESTED DOCUMENTATION, YOUR CLAIM WILL BE RECOMMENDED FOR DISALLOWAL DUE TO LACK OF EVIDENCE SUPPORTING ANY PRIORITY DATE.

*** PLEASE SUBMIT THE REQUIRED EVIDENCE SUPPORTING THE PRIORITY DATE BY OCTOBER 12, 1992. ***

MICROFILMED

JAN 25 1993

PLEASE REFERENCE THE CLAIM NUMBER ON YOUR CORRESPONDENCE. IF YOU HAVE QUESTIONS OR NEED OTHER ASSISTANCE PLEASE CONTACT THIS OFFICE.

SINCERELY,



STEVE CLELLAND
WATER AGENT, SR.

ENCLOSURES:

CC: US DEPT OF INTERIOR
FISH & WILDLIFE SERVICE
911 NE 11TH AVENUE
PORTLAND OR 972324181

US FISH & WILDLIFE SERVICE
HAGERMAN NATIONAL FISH HATCHERY
RT 1 BOX 256
HAGERMAN ID 83332

MICROFILMED

JAN 25 1993

10-2492
SEC

VOLUME CAPACITIES @ NATIONAL HATCHERY IN HAGERMAN

HATCHERY #1 46 TANKS @ 85 cu.ft. = CUBIC FT.
3,910

HATCHERY #2 20 TANKS @ 85 cu.ft. = 1,700

1982 TROUT PONDS 12 - 8'x70'x2.3' = 15,456

1950 TROUT PONDS 24 - 8'x70'x2.3' = 30,912

46,368

STEELHEAD PONDS 66 - 10'x100'x3.05' = 201,300
(ROUNDED AS CLAIMED TO 200,000 cu.ft.)

DISPLAY POND 1 - 8'x75'x2.3' = 1,380

* SUBTOTAL → 254,658

@ FIELD STATION

CAPACITY allowed 252,000
- Display 1380
- 1300 To 200,000
+ Round up

#8 #9 SPRINGS:

1 - SMALL RACEWAY 10'x15'x2.5' = 375

1 - ROUND TANK 4'x20' DIA. = 1,257

#10 SPRINGS:

4 - RACEWAY 6'x50'x3' = 3,600

NEW LAB: (SPRINGS #8 + #11)

40 TANKS @ 175 GALLONS

260 TANKS @ 38 GALLONS

MICROFILMED

JAN 25 1993

TOTAL: 254,658 + 7,489

= 262,147

Allowed 252,000 + 7489 = 259,489

= 16,880 GALLONS

7.48 GAL/CF = 2,257

* SUBTOTAL → 7,489

REVIEW BY
10-24-92
STEVE CLELLAND

CLAIM #
(SOURCE)

CFS

(REMAINS)
FACILITY
VOLUME
(D06) cu.ft.

(NON-IRR)
FACILITY
CAPACITY + DESCRIPT.

A36-00128
(BICKEL SPR.)

2.0

200,000

200,000 66 STEEL

A36-00129
(#10)

1.0

3,600

3,600

#10 pond

A36-00130
(RILEY CR.)

1.5

200,000

200,000

66 STEEL
LAB 10X15
RACE
20' TANK

A36-00131
(#8-#9)

1.0

3889

3889

46 TANK
103 POUNDS

Dom/IRR

A36-00132
(#11 + #13)

6.0

9540

250,278

A36-02038
(BICKEL SPR.)

< DISALLOW >

A36-15444
(BICKEL SPR.)

18.3

200,000

200,000

66 STEEL

A36-15445
(#10)

< 0.60 DISALLOW >

3,600

3,600

#10 POND
ONLY

A36-15446
(RILEY CR.)

3.86

200,000

200,000

66 STEEL

A36-15447
(#8 + #9)

< 0.50 DISALLOW >

3,889

3,889

20' TANK
NEW LAB

A36-15448
(MAIN, 12, 13, 14)

20.0

80,962

252,000

ALL

A36-15449
#15

4.36

43,275

252,000

ALL

A36-15450
(#16 LL)

21.20

43,275

252,000

ALL

A36-15451
(#17)

4.01

30,912

46,368
30,912

36
TROUT

83.23

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JAN 25 1993



State of Idaho

DEPARTMENT OF WATER RESOURCES

Southern Region, 222 Shoshone St. East, Twin Falls, Idaho 83301 (208) ~~734-3578~~
736-3033

CECIL D. ANDRUS
Governor

R. KEITH HIGGINSON
Director

TRANSMITTAL COVER SHEET

OMNIFAX G66
Phone No.: (208) 736-3037

TO: BARBARA SCOTT-BRIER FROM: STEVE CLELLAND

DOCUMENT DESCRIPTION: 2 PROPOSED RECOMMENDATIONS
2 DRAFT PROPOSALS

TOTAL PAGES SENT: 8

CONTACT: _____
(NAME OF SENDER)

Please consider this document as a billing statement. The charge for your FAX copies is \$ _____. Please remit to the above address.

Charges: One (1) free copy per request, cover sheet not counted. Two (2) or more copies per request will cost \$.25 per page. (\$.50 minimum)

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JAN 25 1993

Summary of Written Exhibits

10-19-92
su

EXHIBIT I

(date?)
1933

"doubled pond capacity"
= 28,000 sq ft

(instream use)

Spring #10, Riley Cr., #8 #9 #11 #12 #13

EXHIBIT H (1936)

POND 1	34 x 78 x 3	(enlarged) = 7956 cu. ft.
2	28 x 34 x 3	(Enlarged) = 2856 cu. ft.
3	(NOT FINISHED)	~~544,625 cu. ft.~~
4	62 x 75 x 2 1/2	= 11,625 cu. ft.
5	27 x 68 x 3	= 5508 cu. ft.
6	80 x 155 x 4	= 49,600 cu. ft.
		<u>TOTAL 77,545 cu. ft.</u>

perpendicular walls, in stream use

LAKE CREEK:

Reservoir - 75' x 325' depth? (9' perks)
#10, Riley Cr., #8 #9 #11 #12 #13 (75 x 325 x 8 = 195,000 cu. ft.)

Ex C: (1933-1935)

Built - 1 pond - 75 x 24 depth?

(Riley Instream)

lake (rebuilt)
outlet 75' wide dam
10' high

(possible Haldry lake?)
9 Bichee Ditch outlet

Bickel Spring Cr., ~~Riley Cr., #8 #9 #11 #12 #13~~ ~~1933-1935~~ ~~1936~~ ~~1937~~ ~~1938~~ ~~1939~~ ~~1940~~ ~~1941~~ ~~1942~~ ~~1943~~ ~~1944~~ ~~1945~~ ~~1946~~ ~~1947~~ ~~1948~~ ~~1949~~ ~~1950~~ ~~1951~~ ~~1952~~ ~~1953~~ ~~1954~~ ~~1955~~ ~~1956~~ ~~1957~~ ~~1958~~ ~~1959~~ ~~1960~~ ~~1961~~ ~~1962~~ ~~1963~~ ~~1964~~ ~~1965~~ ~~1966~~ ~~1967~~ ~~1968~~ ~~1969~~ ~~1970~~ ~~1971~~ ~~1972~~ ~~1973~~ ~~1974~~ ~~1975~~ ~~1976~~ ~~1977~~ ~~1978~~ ~~1979~~ ~~1980~~ ~~1981~~ ~~1982~~ ~~1983~~ ~~1984~~ ~~1985~~ ~~1986~~ ~~1987~~ ~~1988~~ ~~1989~~ ~~1990~~ ~~1991~~ ~~1992~~ ~~1993~~ ~~1994~~ ~~1995~~ ~~1996~~ ~~1997~~ ~~1998~~ ~~1999~~ ~~2000~~ ~~2001~~ ~~2002~~ ~~2003~~ ~~2004~~ ~~2005~~ ~~2006~~ ~~2007~~ ~~2008~~ ~~2009~~ ~~2010~~ ~~2011~~ ~~2012~~ ~~2013~~ ~~2014~~ ~~2015~~ ~~2016~~ ~~2017~~ ~~2018~~ ~~2019~~ ~~2020~~ ~~2021~~ ~~2022~~ ~~2023~~ ~~2024~~ ~~2025~~ ~~2026~~ ~~2027~~ ~~2028~~ ~~2029~~ ~~2030~~ ~~2031~~ ~~2032~~ ~~2033~~ ~~2034~~ ~~2035~~ ~~2036~~ ~~2037~~ ~~2038~~ 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EX: B (1934)

Pond built on Riley Cr. instream -

$$45 \times 125 \times 3$$

$$= 16,875 \text{ cfs}$$

[pond built - Riley Cr. instream -
 $45 \times 125 \times 1-3'$]

Same pond
Re described

Biche Spr. #10, Riley Cr. #8, #9, #11, #12, #14, Main Spring

EX: F (1939)

"construction of additional ponds"

"sufficient ponds & tank space to rear 4 million
trout to 4" fingerling stage."

P. 27 >

(again in p. 30)

Rearing pond - 150' North of Hatchery building

- pond in natural spring bed

$$- 19 \times 52 \times 3$$

$$= 2964 \text{ cu ft}$$

980 sq. ft. floor area

#16

abandoned
pond
1959
82

P. 28 >

(again p. 32)

Rearing Pond - NW of Brood Stock Lake, 50'

- pond in spring bed

$$32 \times 34 \times 3\frac{1}{2}$$

floor area 1080 sq. ft.

pond
Sharon
EX: E

Hatchery
Lake
Source

Race ways - NW Brood stock Lake 100'

- widened a ditch $8' \times 260'$, dikes 85'

- ditch from New Lake pond
depth 2'

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JAN 25 1993

next
↓

#15 #16

Ex: F (contd)

(p. 31)

Resing Ponds - Lake Outlet

20 x 260 x 2 1/2

5 compartments
bypass along south wall

POND #2 Riley Cr.

28 x 75 x 3

bypass North wall

floor area 2100^{sq} ft

excavate pond - front & South of Hatchery Building

100 x 100 x 2

p. 32

(Resing Pond - same as on page 28)

#15, #16

Ex: A map 1932

Hatchery Bldg = 40' x 138'

Ex: G

(p. 1) 8-10-59

refer. #17 spring

page 1 of 5: shows Bittel Ditch system to Oster Lake area
but no real significant items. DATE!

page 2 of 5: #17 spring^{12"} piped - but where to? 12 ponds
shows #16 no longer spills overflow.

abandoned ponds behind Hatchery Bldg. where new ponds
now built.

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1959

Rebuilt 1982

#17

JAN 25 1993

EXHIBIT E

MAP

R1-27-56

10-16-1950

OF HATCHERY BUILDING AREA

Ref: #13 #14 MAIN SPRINGS

ponds - 250' x 70' (front of Hatchery B.) [NOW REMOVED]

pond - 30' x 75' (along main trib spring) [VIEWING AREA]

pond - 10' x 40' (behind Hatch. B.) [REMOVED]

frw: affid. claims = 34,000 cu ft.

shows diversion to Hatchery B. + ponds
from sources claimed.

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JAN 25 1993

Tom
SHAW ~~Shaw~~ affidavit:

B.S.C.

Hatching lake = 650,000 cu. ft.

Ex. A
Ex B
Ex C

~~Main, 13 & 14~~

H. Building = 48 tanks @ 85 cu ft @

MAIN
13 & 14

main
13 & 14
tributary
stream

1933

in stream pond = 4200 cu ft.

Ex B
Ex D (map)

1949-50
added ponds: 34,000 cu ft.

Ex D
Ex E

#15

irrigation

Ex A

1938 Hatchery Bldg.
and pond 7100 cu ft.

Ex F
Ex D

#6 LLewis

1938-39 pond vol 3000 cu ft

Ex F

1950 ↑ 42,000 cu ft.

Ex D

#17

developed 1950-59

Ex G

24 raceways vol = 34,000 cu ft.

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JAN 25 1993

Deere Rts.

B.S.C.

1933
irrigation + fish use

EX B
EX C
EX D

#10

1933
fish use

per

EX B
EX H
EX I

Riley Cr.

1933
fish use

EX B, H, I

#11

#12

#13

1932 Power (ended 1950)
fish

↓
converted to
Domestic, irrig, Stock
fish

EX J

EX A
EX D
EX B
EX H
EX I

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JAN 25 1993

WINFREE

#10 (15445)

total flow for fish 1933

EX B
EX H
EX D

Riley Cr. (15446)

total flow - fish 1933

EX B
EX H
EX D

#8 + 9 (15447)

total flow - fish - 1933

EX B
EX H
EX D

#8 #9 10 & Riley Cr.

combined in Riley Cr. 17,000 cuf. t.

EX ↑

IDWR NOTE

[Probably source Riley Creek]

combined flow = MAX 9.1 cfs

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JAN 25 1993

Decreed kts.

#8 #9

(-131)

domestic, irig., fish 1932

~ in 1950's only fish use

EX	A
EX	B
EX	D
EX	H
EX	I

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JAN 25 1993

T
8
S

PLACE OF
USE



(SE NE)

POINT OF
DIVERSION

SE NW

SW NE

NESW

L.7

NWSE

NE SE

SWSE
L.9

SESE
L.8

WATER RIGHT NUMBER 36-0130



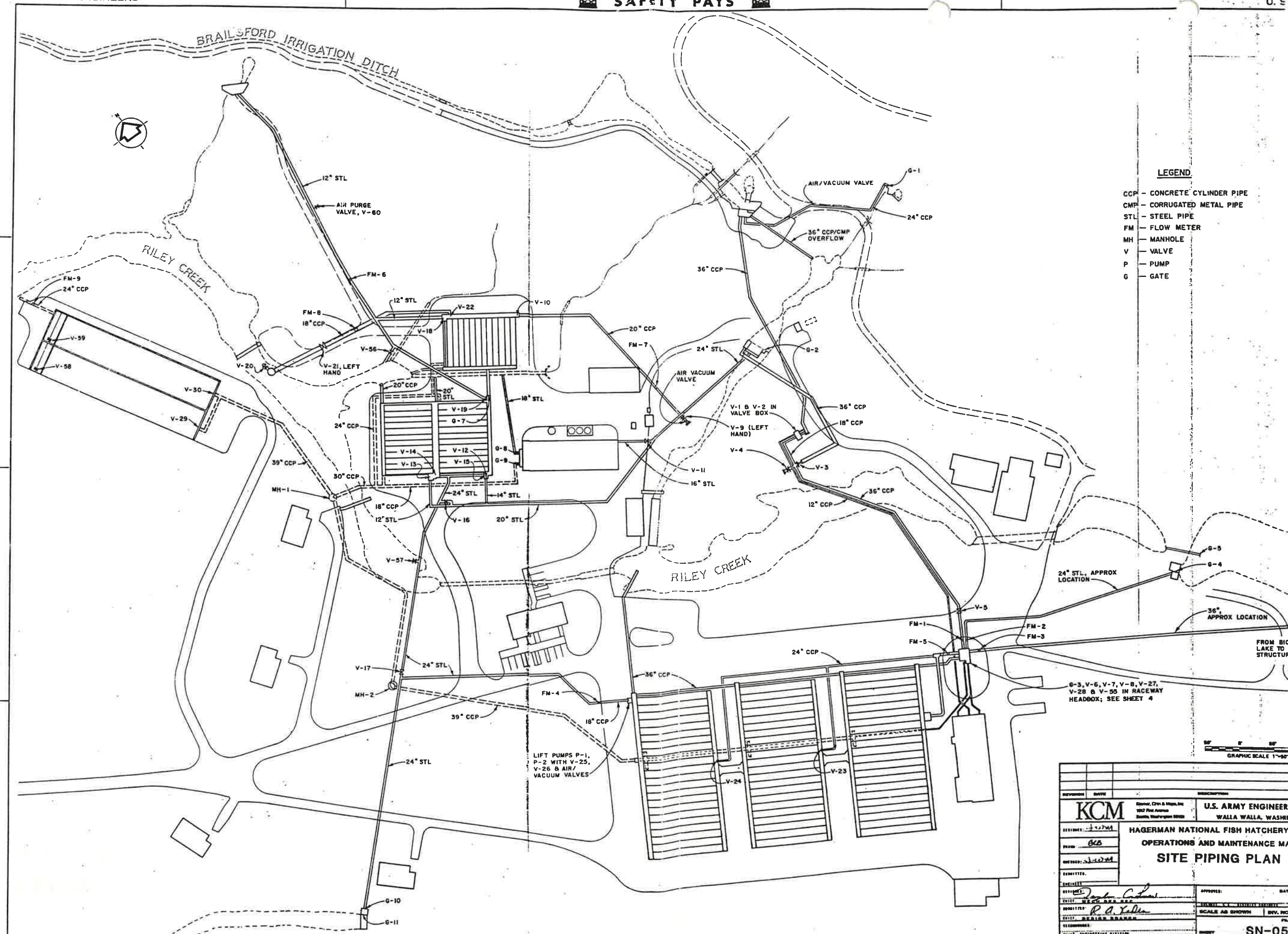
SCALE IN FEET

MICROFILMED

JAN 25 1993







Month November 1978.

RECORD OF WATER SUPPLY MEASUREMENTS
HAGERMAN NATIONAL FISH HATCHERY
GOODING COUNTY, IDAHO

Submitted by Walter G. Haggis
Title Asst. Manager

MICROFILMED
JAN 25 1993

Station	A										B										C										D										E										REMARKS	Initial
	Location No. 1		Location No. 2		Location No. 3		Location No. 4		Location No. 11		Location No. 8		Location No. 12		Location No. 6		Location No. 7		Location No. 9		Location No. 10		T		P		R		C		D		C-D		F																	
1	Boilsford Dam		Spring No. 15		Spr. No. 14, 15, 16		Spring No. 17		Bickie Dam		Riley Creek		State Mgt. Area		Hot Tailrace		Lab. - Spr. 8, 9, 10		Lab. - Spr. 11, 12																																	
2	Rated Flume		2' Weir-Bd crest		4' Parshall Flm		15' Cipo Weir		7' Cipo Weir		15' Cipo Weir		3' Cipo Weir		2' Parshall		15' Cipo Weir		2' Cipo Weir																																	
3	Discharge g.p.m.		Gage Discharge ft.		Gage Discharge g.p.m.		Discharge g.p.m.		Gage Discharge in.		Gage Discharge ft.		Gage Discharge g.p.m.		Gage Discharge ft.		Gage Discharge ft.		Gage Discharge ft.																																	
4	146	7378	.28	430	1.78	17,835	E	1500	.58	10,017	.38	2477	.28	3353	.36	978	.74	3363	E	1800	E	300	32	32	31829	7594	4426	L.T.	3																							
5																																																				
6																																																				
7																																																				
8																																																				
9																																																				
10	1.60	7378	.30	476	1.86	19,212	E	1500	.58	10,017	.38	2477	.28	3353	.02	50	116	4519	E	1800	E	300	0	37	33206	7922	25384	L.T.	10																							
11																																																				
12																																																				
13																																																				
14																																																				
15																																																				
16																																																				
17	1.58	7253	.28	430	1.86	19,212	E	1500	.58	10,017	.38	2477	.28	3353	.24	534	1.68	4,044	E	1800	E	300	6	37	33206	7931	35215	L.T.	17																							
18																																																				
19																																																				
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21																																																				
22																																																				
23																																																				
24	1.58	7253	.28	430	1.86	19,212	E	1500	.58	10,017	.38	2477	.28	3353	.24	534	1.68	4,044	E	1800	E	300	17	37	33206	7918	25385	L.T.	24																							
25																																																				
26																																																				
27																																																				
28																																																				
29																																																				
30	1.58	7253	.30	476	1.86	19,212	E	1500	.58	10,017	.38	2477	.28	3353	.28	673	1.62	3,103	E	1800	E	300	17	44	33206	7930	25385	L.T.	31																							
31																																																				

(Supply Location Shown On Drawing -1F-104 129 105.0)

(T=Hotchery Tanks In Operation, P=10'x60' Raceways In Operation, R=8'x70' Raceways In Operation)

IF MISC. 101.1

(Supply Location Shown On Drawing - If IDA 129 105 0) (T = Hatchery Tanks In Operation, P = 10x60 Raceways In Operation, R = 8x70 Raceways In Operation) IF MISC. 18.1

Copy

MONTH November 19 87

RECORD OF WATER SUPPLY MEASUREMENTS
HAGERMAN NATIONAL FISH HATCHERY
GOODING COUNTY, IDAHO

SUBMITTED BY HT. Sherr
TITLE Rest Mgr

MICROFILMED
JAN 25 1993

A		B		C		D		F		Tanks		Raceways		REMARKS		Initials	
LOCATION NO. 1	LOCATION NO. 2	LOCATION NO. 3	LOCATION NO. 4	LOCATION NO. 11	LOCATION NO. 8	LOCATION NO. 12	LOCATION NO. 6	LOCATION NO. 7	LOCATION NO. 9	LOCATION NO. 10	T	P	R	C	D	C-D	#
BRALSFORD DCH	SPRING NO. 1	SPRING NO. 14, 15, 16	SPRING NO. 17	BICKLE DAM	RILEY CREEK	STATE MGT AREA	HAT TILL RACE	LAB - SPR. 8, 9, 10	LAB - SPR. 11 & 12								
RATED FLUME	2' WEIR-BD CRST	4' PARSHALL FLUM	15' CIPO WEIR	7' CIPO WEIR	15' CIPO WEIR	3' CIPO WEIR	2' PARSHALL FLUM	15' CIPO WEIR	2' CIPO WEIR								
GAUGE FT.	DISCHARGE G.P.M.	GAUGE FT.	DISCHARGE G.P.M.	GAUGE FT.	DISCHARGE G.P.M.	GAUGE FT.	DISCHARGE G.P.M.	GAUGE FT.	DISCHARGE G.P.M.	GAUGE FT.	DISCHARGE G.P.M.	GAUGE FT.	DISCHARGE G.P.M.	GAUGE FT.	DISCHARGE G.P.M.	GAUGE FT.	DISCHARGE G.P.M.
1																	
2																	
3	1.38	4,944	3.01	22,054													
4																	
5																	
6																	
7																	
8																	
9																	
10	1.27	3,021	2.41	22,230													
11																	
12																	
13																	
14																	
15																	
16																	
17	1.25	1,944	2.41	22,230													
18																	
19																	
20																	
21																	
22																	
23																	
24	1.25	1,944	2.41	22,230													
25																	
26																	
27																	
28																	
29																	
30																	
31																	

(SUPPLY LOCATION SHOWN ON DWG. F-10-123-103.0) (T-HATCHERY TANKS IN OPERATION, P=10'x68' RACEWAYS IN OPERATION, R=8'x70' RACEWAYS IN OPERATION) IF-MISC.-181.1

copy

MONTH August 19 21

RECORD OF WATER SUPPLY MEASUREMENTS
HAGERMAN NATIONAL FISH HATCHERY
GOODING COUNTY, IDAHO

SUBMITTED BY H.T. Wilson
TITLE Asst. Mgr.

MICROFILMED
JAN 25 1993

D A T E	A		B		C		D		F		Tanks		Race Ways		REMARKS		Initials	
	LOCATION NO. 1	LOCATION NO. 2	LOCATION NO. 3	LOCATION NO. 4	LOCATION NO. 11	LOCATION NO. 8	LOCATION NO. 12	LOCATION NO. 6	LOCATION NO. 7	LOCATION NO. 9	LOCATION NO. 10	T	P	R	C	D	C-D	F
1	BRALSFORD DCH	SPRING NO. 1	SPRING NO. 14, 15, 16	SPRING NO. 17	BICKLE DAM	RILEY CREEK	STATE MGT. AREA	HAT. TAIL RACE	2' PARSHALL FLM	LAB. SPR. 8, 9, 10	LAB. SPR. 11, 12							
2	RATED FLUME	2' WEIR-BL. CRST	4' PARSHALL FLM	15' CIP. WEIR	7' CIP. WEIR	15' CIP. WEIR	3' CIP. WEIR	2' PARSHALL FLM	15' CIP. WEIR	2' CIP. WEIR								
3	GAUGE FT.	DISCHARGE G.P.M.	GAUGE FT.	DISCHARGE G.P.M.	GAUGE FT.	DISCHARGE G.P.M.	GAUGE FT.	DISCHARGE G.P.M.	GAUGE FT.	DISCHARGE G.P.M.	GAUGE FT.	DISCHARGE G.P.M.	GAUGE FT.	DISCHARGE G.P.M.	GAUGE FT.	DISCHARGE G.P.M.	GAUGE FT.	DISCHARGE G.P.M.
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29																		
30																		
31																		

(SUPPLY LOCATION SHOWN ON DWG. IF ID-129-105.0) (T-HATCHERY TANKS IN OPERATION, P=IC x 68' RACEWAYS IN OPERATION, R=8 x 70' RACEWAYS IN OPERATION) IF-MISC.-181.1

Month October 19 66

RECORD OF WATER SUPPLY MEASUREMENTS
HAGERMAN NATIONAL FISH HATCHERY
GOODING COUNTY, IDAHO

Submitted By Gerald A. Martin
Title Assistant Manager

MICROFILMED

5 1993

A		B		C		D		E		F		REMARKS												Initial
Location No. 1 Bradford Dam Raided Flume 5,429	Location No. 2 Spring No. 5 Weir-Bd. cas 712	Location No. 3 Spr. No. 14, 15, 16 Parshall Flm 14, 779	Location No. 4 Spring No. 17 Estimate 1,000	Location No. 11 Bicycle Dam 15 Cipo Weir 8,974	Location No. 8 Riley Creek 3 Cipo Weir 3,405	Location No. 12 St. Clair Weir 15 Cipo Weir 6,403	Location No. 6 Hot Tailrace 3 Cipo Weir 1,378	Location No. 7 Parshall 2 Cipo Weir 1,798	Location No. 9 Lab-Spr. 6, 9, 10 1.5 Cipo Weir 1,621	Location No. 10 Lab-Spr. 11, 12 2 Cipo Weir 235	T	P	R	C	D	C-D	F							
1 5,709 Sunday	2 727 Sunday	3 761 Sunday	4 727 Sunday	5 8,991 Sunday	6 3,245 Sunday	7 3,353 Sunday	8 1,411 Sunday	9 1,710 Sunday	10 1,620 Sunday	11 270 Sunday	12 3,47	13 28,018	14 3,47	15 28,018	16 3,47	17 21,707	18 1,890	19 1,890	20 1,890					
1.36	1.40	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58					
4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0					
1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36					
4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0					
1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36					
4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0					
1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36					
4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0					
1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36					
4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0					
1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36					
4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0					
1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36					
4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0					
1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36					
4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0					
1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36					
4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0					
1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36					
4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0					
1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36					
4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0					
1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36					
4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0					
1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36					
4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0					
1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36					
4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0					
1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36					
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1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36					
4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0					
1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36					
4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0					
1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36					
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4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0					
1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36					
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4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0					
1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36					
4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0					
1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36					
4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0					
1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36					
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1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36					
4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0					
1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36					
4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0					
1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36					
4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0					
1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36					
4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0					
1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36					
4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0					
1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36												



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MICROFILMED

JAN 25 1993



U. S. FISH AND WILDLIFE SERVICE
HAGERMAN NATIONAL FISH HATCHERY
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DAVE BRUHN
HATCHERY MANAGER

Tom Shaw Asst. Mgr

Residence
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HAGERMAN, ID 83332

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MICROFILMED

JAN 25 1993

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT
OF THE STATE OF IDAHO IN AND FOR THE COUNTY OF TWIN FALLS

IN RE THE GENERAL ADJUDICATION OF)
RIGHTS TO THE USE OF WATER FROM THE)
SNAKE RIVER BASIN WATER SYSTEM)

The State of Idaho, ex rel.)
Keith Higginson in his official)
capacity as Director of the Idaho)
Department of Water Resources,)
Petitioner,)

v.)

The United States; The State of Idaho;)
and all claimants to the use of water)
from the Snake River Basin Water System,)
Defendants.)

CASE NO. 39576

DECLARATION OF
ROBERT A. WINFREE

RECEIVED

OCT 16 1992

Department of Water Resources
Southern Region Office

I, ROBERT A. WINFREE do declare that:

1. a. I serve as the supervisory research physiologist
and station chief assigned to the Hagerman Field Station,
U.S.F.W.S. My responsibilities include directing essentially all
the activities at the Hagerman Field Station, including
operations and fisheries research. I have served in this
function since January 1990, when I joined the U.S.F.W.S.

b. Prior to 1990, my experiences have included:

1988-1989 - owner and operator of a commercial
fish farm in Florida.

1986-1989 - technical consultant on aquaculture
to U.S. Agency for International Development, International

Executive Service Corps, Florida Aquaculture Association (Board of Directors) and others.

1985-1989 - technical and operations consultant for the worlds largest totally-closed synthetic seawater aquarium system at Walt Disney's EPCOT Center.

1983-1988 - Project leader for fin-fish and crustacean aquaculture at the Harbor Branch Oceanographic Institution (Fort Pierce, Florida).

1977-1983 - Research and teaching assistant in fisheries and wildlife sciences, Texas A&M University (College Station, Texas).

1990-1992 - Technical Advisory Committee member to the Idaho Aquaculture Association.

c. My credentials and other qualifications include completion of the following degrees:

Bachelor of Science degree, Fisheries & Wildlife Biology, Iowa State University, 1975.

Master of Science degree, Wildlife & Fisheries Services, Texas A&M University, 1979.

Doctor of Philosophy degree, Wildlife & Fisheries Sciences, Texas A&M University, 1983

Post Doctoral Fellowship, Harbor Branch Oceanographic Institution, 1986

I am an American Fisheries Society (AFS) certified Fishery Biologist and a professional member of the AFS national organization, the World Aquaculture Society, the Fish Culture

Section of the AFS, and the Institute of Food Technologists. I have actively participated in state Aquaculture associations of Texas, Florida, and Idaho.

I am the author of multiple scientific and technical articles related to fish culture and fisheries sciences, and have delivered speeches at numerous regional, national and international conventions and workshops.

Over my 15 years professional experience (1977-1992) I have gained extensive experience in the culture of many species of fresh and salt water fish and invertebrates and I have participated, planned, implemented, or critiqued designs of at least ten fish culture facilities.

d. I am familiar with current operations of the Hagerman Field Station and I have studied historic operations through archival documents, interviews with FWS employees, and on-site inspections of historic structures. I have read numerous reports describing trout hatchery practices from the late 1800s to the present and I am familiar with the types of activities and uses practiced at Hagerman.

2. The United States Department of the Interior, Fish and Wildlife Service, maintains the Hagerman National Fish Hatchery and Hagerman Field Fish Station for propagation and research of fish. These facilities require the use of water to fulfill these purposes.

3. The Hagerman National Fish Hatchery was authorized in 1930 and began operations in 1932.

4. To the best of my information and belief, the Hagerman National Fish Hatchery first put the water claimed as a beneficial use water right to beneficial use as follows:

a. Exchange Rate. The required exchange rate calculated for all pond/raceways listed is based on three (3) times per hour. The exchange rates calculated for all tanks listed is based on six-seven (6-7) times per hour.

b. Spring (No. 10) (SRBA Claim A36-15445). Use of the water of Spring (No. 10) existed prior to aquisition of the Hatchery property. The Hatchery initiated use of the total flow of Spring (No. 10) for fish propagation by 1933 as further evidenced by the Hatchery's 1934 Annual Report (Exhibit B), the 1936 Annual Report (Exhibit H) and the 1950 General Layout drawing (Exhibit D).

c. Riley Creek (SRBA Claim A36-15446). Use of the water of Riley Creek existed prior to aquisition of the Hatchery property. The Hatchery initiated use of the total flow of Riley Creek for fish propagation by 1933, as further evidenced by the Hatchery's 1934 Annual Report (Exhibit B) the 1936 Annual Report (Exhibit H) and the 1950 General Layout drawing (Exhibit D).

d. Springs (No. 8&9) (SRBA Claim A36-15447). Use of Springs (No. 8-9) existed prior to acquisition of the hatchery property. With the exception of minor domestic and irrigation uses, which ceased by 1987, the entire flow of Springs (No. 8&9) was used for fish propagation by 1933, as evidenced by the Hatchery's 1934 Annual Report, (Exhibit B), the 1936 Annual

report (Exhibit H), and the 1950 General Layout drawing (Exhibit D).

e. Flows from Springs (No. 8&9), Spring (No. 10), and Riley Creek were combined in the channel of Riley Creek to flow through a trout rearing pond (i.e., raceway) with a volume of approximately 17,000 cubic feet as evidenced by the Exhibits listed above in b, c, and d.

f. The combined maximum total flow from the above-mentioned sources is 9.1 cfs. The optimal flow required for the above-mentioned raceway is 14.1 cfs.

5. a. The United States of America through the Fish and Wildlife Service holds decreed water rights for Hagerman National Fish Hatchery pursuant to decree number 1602, New International Mortgage Bank v. Idaho Power Company. The purposes of these water rights were decreed to be: "irrigation, domestice [sic], power, and other purposes."

b. To the best of my information and belief, those decreed water rights were used by the previous owners and have continued to be used by the Fish and Wildlife Service.

c. Specifically, I believe that the use of the Service's decreed water right was as follows:

(i) Springs 8 and 9 (SRBA Claim A36-00131). This water continued to be used for domestic and irrigation purposes as well as for fish propagation purposes in 1932, as evidenced by the 1932 Hatchery map (Exhibit A), the 1950 General Layout drawing (Exhibit D), the 1934 Annual Report (Exhibit B), the 1936

Annual Report (Exhibit H), and the 1934 Summary Report of Federal Civil Works Project F42 (Exhibit I). Apparently starting in the 1950s, the water was used primarily for fish propagation purposes.

Pursuant to 28 U.S.C. § 1746, I declare under penalty of perjury that the foregoing true and correct. Executed on this 14 day of October, 1992.



Robert A. Winfree
Supervisory Research
Physiologist and Station Chief
U.S. Department of the Interior
Fish and Wildlife Service
Hagerman Field Station
Hagerman, Idaho

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT
OF THE STATE OF IDAHO IN AND FOR THE COUNTY OF TWIN FALLS

IN RE THE GENERAL ADJUDICATION OF)
RIGHTS TO THE USE OF WATER FROM THE)
SNAKE RIVER BASIN WATER SYSTEM)
_____)

The State of Idaho, ex rel.)
Keith Higginson in his official)
capacity as Director of the)
Idaho Department of Water)
Resources,)

Petitioner,)

v.)

The United States; The State of)
Idaho; and all claimants to the)
use of water from the Snake River)
Basin Water System,)

Defendants.)
_____)

RECEIVED

OCT 16 1992

Department of Water Resources
Southern Region Office

CASE NO. 39576

DECLARATION OF TOM SHAW

I, Harry T. Shaw, do declare that:

1. a. I am the Assistant Hatchery Manager of Hagerman National Fish Hatchery, Hagerman, Idaho, United States Department of the Interior, Fish and Wildlife Service, Region 1.
- b. I have been employed by the United States Fish and Wildlife Service since January 1965. I was born and educated through high school in western Pennsylvania. I attended college at Colorado State University where I received a Bachelor of Science degree in Fisheries Science.

After college I served two years in the United States Army as a medic at Fort Riley, Kansas.

c. My career with the United States Fish and Wildlife Service began at Norfork, Arkansas where I was employed as a Fishery Biologist at the Norfork National Fish Hatchery. In June 1969, I was transferred to the Wytheville National Fish Hatchery, Virginia. There I served as Assistant Hatchery Manager in charge of production and distribution for 15 month. In August 1970, I was transferred to Spearfish, South Dakota to attend the In-Service Training School for Fish Hatchery Management. In June 1971, I was assigned to the Greers Ferry National Fish Hatchery, Arkansas as Assistant Hatchery Manager in charge of production and distribution. In August 1974, I transferred to the Jackson, Wyoming National Fish Hatchery as Assistant Hatchery Manager. In December 1979, I transferred to the Berlin, New Hampshire National Fish Hatchery as Assistant Hatchery Manager. In September 1980, I transferred to Hagerman National Fish Hatchery as Assistant Hatchery Manager.

d. As Assistant Hatchery Manager at Hagerman National Fish Hatchery, I am, at this time, in charge of the production of various species of salmonids. My duties include all phases of rearing and distribution of trout and salmon. I usually have a crew of 3 to 8 personnel that I supervise. One of my duties is to measure, regulate and record the use of the

Hatchery water supply. Managing this water supply requires close cooperation with the Brailsford Ditch Company, Hagerman State Fish Hatchery, Hagerman State Wildlife Management Area and other downstream users.

e. I am familiar with the current operations of the Hagerman National Fish Hatchery and I have studied historic operations through archival documents, interviews with Fish and Wildlife Service employees, and on-site inspections.

2. The United States Department of the Interior, Fish and Wildlife Service, maintains the Hagerman National Fish Hatchery and Hagerman Field Station for propagation and research of fish. These facilities require the use of water to fulfill these purposes.

3. The Hagerman National Fish Hatchery was authorized in 1930 and began operations in 1932.

4. To the best of my information and belief, the Hagerman National Fish Hatchery first put the water claimed as a beneficial use water right to beneficial use as follows:

a. Exchange Rate. The exchange rate for all ponds/raceways is based on approximately three (3) times per hour. The exchanges rate for all tanks is based on approximately six-seven (6-7) times per hour.

b. Bickel Spring Creek (SRBA Claim A 36-15444). Bickel Spring Creek, aka "Hatchery Lake," existed prior to acquisition of the Hatchery property and was used for irrigation purposes. The Hatchery initiated use of Bickel Spring Creek for fish propagation purposes in 1933, as further evidenced by a 1932 map of the Hatchery (Exhibit A), the Hatchery's 1934 Annual Report (Exhibit B), and the Summary Report of Public Works Administration Project, 1933-1935, for the Hatchery (Exhibit C). The approximate volume of the lake where fish were reared was 650,000 cubic feet.

c. Main Spring, Springs 13 and 14 (SRBA Claim A 36-15448). The original Hatchery building was present in 1932, as further evidenced by the 1932 Hatchery map (Exhibit A). The original Hatchery building housed 48 rearing tanks, each with an approximate volume of 85 cubic feet. In 1933, a pond/raceway was constructed in the stream bed of a tributary to Riley Creek which is fed by Main Spring and Springs 13 and 14. That pond's volume was approximately 4200 cubic feet, as further evidenced by the 1934 Annual Report (Exhibit B) and the 1950 drawing, General Layout Hagerman Fish Cultural Station (Exhibit D). Additional ponds/raceways were constructed in 1949 and 1950 using the waters of Main Spring and Springs 13 and 14, as further evidenced by the 1950 General Layout (Exhibit D) and the 1950 drawing Water Supply to Hatchery and Ponds (Exhibit E).

The total volume of these later ponds was approximately 34,000 cubic feet.

d. Spring 15 (SRBA Claim A 36-15449). Spring 15 was originally used for irrigation, as evidenced by the 1932 Map (Exhibit A). In 1938, the Hatchery initiated use of Spring 15 for fish propagation purposes in Hatchery Building tanks and a pond totalling approximately 7100 cubic feet, as evidenced by the Hatchery's 1939 Annual Report (Exhibit F) and the 1950 General Layout (Exhibit D).

e. Len Lewis Spring (SRBA Claim A 36-15450). Len Lewis Spring was developed in 1938-1939 for fish propagation purposes. A pond/raceway was built with a volume of approximately 3000 cubic feet, as evidenced in the 1939 Annual Report (Exhibit F) and prior to 1950 the volume was increased to approximately 42,000 cubic feet, as evidenced in the 1950 General Layout (Exhibit D).

f. Spring 17 (SRBA Claim A 36-15451). Spring 17 was developed between 1950-1959 for fish propagation purposes, as evidenced by the 1959 drawing Station Plot Plan for the Hagerman Fish Cultural Station, sheets 1 and 2 of 5 (Exhibit G). Spring 17 supplied water to 24 raceways with a volume of approximately 34,000 cubic feet.

5. a. The United States of America through the Fish and Wildlife Service holds decreed water rights for Hagerman National Fish Hatchery pursuant to decree number 1602, New International Mortgage Bank v. Idaho Power Company. The purposes of those water rights were decreed to be:
- "irrigation, domestice [sic], power, and other purposes."
- b. To the best of my information and belief, those decreed water rights were used by the previous owners and have continued to be used by the Fish and Wildlife Service.
- c. Specifically, I believe that the use of the Service's decreed water rights was as follows:

(i) Bickel Spring Creek (SRBA A 36-00128). The Hatchery continued to use this water in 1933 for irrigation purposes as well as fish propagation purposes, as evidenced by the 1934 Annual Report (Exhibit B), the Summary Report of Public Works Administration Project (Exhibit C), and the 1950 General Layout (Exhibit D).

(ii) Spring 10 (SRBA Claim A 36-00129). In 1933, the Hatchery used this water for fish propagation purposes, as evidenced by the 1934 Annual Report (Exhibit B), the 1936 Annual Report (Exhibit H), and the 1934 Summary

Report of Federal Civil Works Project F42 (Exhibit I).

(iii) Riley Creek (SRBA Claim A 36-00130). In 1933, the Hatchery used this water for fish propagation purposes, as evidenced by the 1934 Annual Report (Exhibit B), the 1936 Annual Report (Exhibit H), and the 1934 Summary Report of Federal Civil Works Project F42 (Exhibit I).

(iv) Springs 11, 12, and 13 (SRBA Claim A 36-00132). The Hatchery continued to use this water for power purposes in 1932, as well as for fish propagation, with power uses being discontinued in 1950, as evidenced by the 1932 Hatchery Map (Exhibit A), the 1950 General Layout (Exhibit D), the 1934 Annual Report (Exhibit B), the 1936 Annual Report (Exhibit H), and the 1934 Summary Report of Federal Civil Works Project F42 (Exhibit I). Apparently starting in 1950, water use for power purposes was replaced by use for domestic, irrigation, and stockwater purposes as well as for fish propagation purposes, as evidenced by the 1950 drawing Domestic Water Supply and Sewage Disposal at the Hagerman Fish Cultural Station (Exhibit J).

Pursuant to 28 U.S.C. 1746, I declare under penalty of perjury that the foregoing is true and correct. Executed on this 14th day of October, 1992.



Harry T. Shaw
Assistant Hatchery Manager
U.S. Department of the Interior
Fish and Wildlife Service
Hagerman National Fish Hatchery
3059 D National Fish Hatchery Road
Hagerman, Idaho 83332

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Southern Region Office

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Condensed Summary of Operations,
Hagerman, Idaho station Fiscal year 1934.

Work accomplished outside of fish culture and routine station work during the year with the allotment chargeable to propagation of food fishes consisted of a pond for rearing trout. This pond was built in the natural stream bed of Riley Creek. The dimensions are 45 feet wide 125 feet long and from 1 to 3 feet deep. Concrete floors were built across the stream bed at the upper and lower end of this pond, piers 3 feet high equipped with screen and dam board slots were built on top of the floor. This whole structure was tied together with construction steel. The height of water can be controlled with dam boards fitted between the piers.

The grounds, adjacent to the Foreman and Superintendents' cottages was graded leveled and sowed to lawn. Considerable work was also accomplished toward leveling the ground around the hatchery building.

A small bath room was added to the small cabin acquired with the property. This building is occupied by one of the permanent station employees.

Additional improvements were made possible during the fall and winter through funds made available from Public Works and Civil Works allotments. These improvements will be described more fully under separate headings for each allotment. This work was limited to improvement and construction of ponds, hydro electric plant for furnishing the station with electric power and light, transmission line, and replacement of part of pipeline furnishing water to generate power.

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Two additional bed room were also added to the Foremans cottage and a building acquired with the property was remodelled into living quarters for permanent employees. This cottage consists of three rooms and bath.

Review of Construction and Repairs:

Ponds:

In order to hold and feed young fish to the fingerling stage before liberating it was necessary to construct outside rearing ponds, sites were available for this purpose in natural stream beds of Riley Creek which heads on the Bureau property and is fed by several large springs. One pond 45 feet wide and 125 feet long was constructed in the bed of Riley Creek. This work consisted of cleaning out the stream bed and the building of a concrete floor ⁴/_{feet} wide across the upper and lower end of the pond. Concrete piers were set on the floor 4 feet apart. These piers were equipped with slots for dam boards and screens. The height of water can be regulated with these dam boards ranging from 1 to 3 feet in depth. This pond will accomodate 5000 fish from 4 to 6 inches in length.

Living Quarters:

A small bath room was added to the small cabin acquired with the property and occupied by one of the permanent station employees. This bath room was equipped with shower bath, toilet and washbowl and running water piped to the building. Concrete ceptic tank was also installed for sewage. The grounds adjacent to the Foremans and Superintendents living quarters were also leveled and seeded to lawn. Some grading and leveling was also accomplished in front of the hatchery preparatory for seeding to grass. Considerable work was also done on roads leading to the various buildings.

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Transfer of tools and equipment from Afognak, Alaska, station.

A considerable amount of the supplies tools and equipment transported to Seattle after the Afognak station had been closed was transferred to the Hagerman station, while the most of the tools and equipment had been used they were still in good serviceable condition and will save purchasing new material for use here. This material was transferred from Seattle to Hagerman with the station truck.

The large Peltoⁿ type water wheel acquired through transfer from the Alaska Railroad several years ago was also transferred to the station and has been installed for power to generate electricity for station requirements.

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Fish Culture Operations:

On July 1, 1933 the station records show stock on hand as follows:

151,000 steelhead salmon fry

489,500 rainbow trout fry

400,000 blackspotted trout eggs were received from Yellowstone National Park during July. With the exception of a small number that are being held of each of the above species for either brood or exhibition purposes, the remainder were distributed during the fiscal year in the Snake River and tributaries in this territory. Several consignments were liberated within the boundary of the National Forests. These fish were from 2 to 4 inches in length at time of liberation. The Idaho State Game Commission cooperated with the Bureau in the distribution of these fish and furnished their truck equipped with tank and air pump for this work. During December and January egg shipments were received as follows:

749,600 eastern Brook trout.

250,000 lochleven trout

469,500 Rainbow trout.

There were also transferred from Williams Lake, Id. during April and May, 716,000 rainbow trout eggs. 112,000 of these eggs were reshipped outside the state.

The lochleven and brook trout fry showed considerable loss in the early stages, due probably to them being crowded in the tanks at that particular time. As soon as space would permit thinning them out the loss became normal. The majority of the fish resulting from the eggs received during December and January and

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have been liberated. The Idaho Game Department has again furnished their tank truck for distributing these fish. 400,000 blackspotted trout eggs have been received from the Bureau's operations in Yellowstone Park these eggs were received during June 1934.

2000 adult rainbow trout were obtained from the Snake River trout Farm at Buhl, Idaho, during November, 1933. These fish were received just before the spawning season. Approximately 250,000 eggs were collected but less than one half of them hatched. This low rate of hatch was probably due to the crowded space they were held in before they were transferred. It is believed the collections will be more successful this season for the reason the fish are being held in the small lake here where they have plenty of room and practically natural surroundings.

The salmon eggs, (chinook salmon) collected in the Lemhi River, near the Salmon, Idaho station, were transferred to the Hagerman station during the eyed stage, hatched and the fish planted in the Snake River during the fingerling stage. Part of these fish were liberated in the Weiser River a tributary of the Snake, during the month of May. This plant was made at the request of the Idaho State Game Department, and were distributed with their tank truck. These fish were four inches in length.

It is doubtful if favorable results can be had from planting migratory fish in the Snake River in this section on account of the large number of irrigation and power diversions that are taken from the river below this point that would undoubtedly result in a heavy loss to the down stream migrants. There are also several dams in the river below this point that are not provided with adequate fishways to permit the adult fish to ascend the river for spawning purposes. If these conditions were remedied in the future, there is no doubt but what salmon could be successfully reared at this station.

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OUTPUT OF HAGERMAN STATION

(Salmonidae)

FISCAL YEAR 1934

715,000	Eggs received from Salmon Idaho Substation
2,269,100	Eggs received by transfer
<u>640,500</u>	Fingerling on hand July 1, 1933
3,624,600	Eggs and fingerling handled during the year

172,000	Eggs distributed during year
<u>1,460,550</u>	Fingerling distributed during year
1,632,550	Eggs and fingerling distributed during year

200,000	Eggs on hand July 1, 1934
<u>1,382,400</u>	Fingerling on hand July 1, 1934
1,582,400	Eggs and fingerling on hand July 1, 1934

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Statement Showing the Output of Fish and Eggs During the Calendar Year 1935 ✓

Species Common Name	Eggs		Fry		Fingerlings, Yearlings, etc.	
	Number Distributed	Number Planted	Number Distributed	Number Planted	Number Distributed	Number Planted
Blackspotted Trout					37,500	
Chinook Salmon	60,000				429,000	
Rainbow Trout					45,000	
Steelhead Salmon						
Totals	60,000				510,000	

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Statement of Fish and Eggs Handled During the Year

Species		Eggs		Fry	
Common Name	Scientific Name	Collected	Received by Transfer or Purchase	Number Hatched	Per Cent Hatched
Blackspotted Trout	Salmo lewisi	(12)	400,000	595,000	* .987
Brock Trout	Salvelinus fontinalis	(1)	749,600	591,000	* .288
Chinook Salmon	Oncorhynchus tshawytscha	(1)	214,500	203,500	* .944
Lochleven Trout	Salmo leuvenensis	(1)	250,000	241,000	*
Rainbow Trout	Salmo irides	(2) (25) 499,500		426,500	* .908
Rainbow Trout	" "	200,000 (3)		108,000	* .50
Rainbow Trout	" "		718,000 112,000 shipped	562,000	* .93
Totals		209,000	2,587,400	2,457,000	* .936

Indicate by foot notes--

1. Eggs from wild fish.
2. Eggs from brood stock.
3. Eggs by transfer.
4. Eggs by purchase.
5. Recd. as eyed eggs

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RECORD OF DISTRIBUTION (SALMONIDÆ)

Species	No. of Eggs	No. of Fry	NUMBER OF FINGERLINGS				TOTALS	ON HAND AT END OF YEAR
			No. 1	No. 2	No. 3	No. 4		
Blackspotted Trout	---	---	---	30,000	7,000	288,000 25,000 # 8	380,000	400,000
Brook Trout	---	---	---	60,000	---	---	60,000	---
Chinook Salmon	60,000	---	---	10,000	148,000	8,750 # 5	228,550	---
Lochleven Trout	---	---	---	---	100,000	---	100,000	20,000
Rainbow Trout	112,000	---	---	---	327,500	271,500 12,000 # 5	758,000	744,000
Steelhead Salmon	---	---	---	---	22,000	---	127,000	13,400
	172,000	---	---	100,000	606,000	750,250	1,558,250	1,582,900

Figures must agree with reports of distribution previously submitted

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STATEMENT OF FISH AND EGGS
DISTRIBUTED DURING
FISCAL YEAR 1954

Species	Number	Age
Blackspotted Trout	30,000	Fingerling No. 2
" "	7,000	Fingerling No. 3
" "	298,000	Fingerling No. 4
" "	25,000	Fingerling No. 5
Brook Trout	60,000	Fingerling No. 2
Chinook Salmon	60,000	Eyed Eggs
" "	10,000	Fingerling No. 2
" "	149,500	Fingerling No. 3
" "	9,750	Fingerling No. 5
Lochleven Trout	100,000	Fingerling No. 3
Rainbow Trout	112,000	Eyed Eggs
" "	327,500	Fingerling No. 3
" "	271,500	Fingerling No. 4
" "	41,000	Fingerling No. 5
Steelhead Salmon	22,000	Fingerling No. 3
" "	95,000	Fingerling No. 4
" "	10,000	Fingerling No. 5

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Distribution by States

States in which distributed	Species	Size		
		Eggs	Fry	Fingerlings, Yearlings, etc.
Oregon	Rainbow	30,000		
Washington	Rainbow	<u>82,000</u>		
		112,000		

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Report of Distribution by Station Messengers

Number of Trips	Total number of species carried	Miles traveled	Total cost of distribution
NO FISH DISTRIBUTED BY STATION MESSENGERS			

Distribution by fish cars is not to be considered. If a car messenger is detailed to a station to aid in the distribution he must be considered as a station employee but if a car man is sent to the station to receive fish for the fish car, the fish to be distributed under the orders of the car captain no record is to be kept.

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Stations Operated During Year

Name of station	Period of operation	Species handled
Hagerman, Idaho	Entire year	Black Spotted Trout Eastern Brook Trout Chinook Salmon Lochleven Trout Rainbow Trout Steelhead Salmon

Give all sub-stations and egg-collecting fields.

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Cost of Fish and Fish Eggs Per Thousand

Species	Cost of Eggs Per 1,000		Cost of Fish Per 1,000	
	Green	Eyed	Fry	Fingerlings
Black Spotted Trout	Wild stock Rec. thru trans.	.033	.04	.917
Eastern Brook Trout	Wild stock Rec. thru trans.	.054	.045	1.44
Lochleven Trout	Wild stock Rec. thru trans.	.05	.04	1.23
Rainbow Trout	.52	.04	.075	1.32
Steelhead Salmon	Wild stock Rec. thru trans.			1.24
Chinook Salmon	Wild stock Rec. thru trans.	.05	.076	1.52
Note * (262,000 Rainbow trout eggs received from Domestic Fish (Meader Trout Farm, Pocatello, Idaho (207,000 Rainbow trout eggs received from U.S.B. of Fish., Manchester, Iowa. Wild Fish (715,000 Rainbow trout eggs received from Williams Lake, Idaho.				

Indicate by footnotes: Eggs from wild stock; eggs from brood stock; eggs purchased; eggs received by transfer.

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Statement of Fish Food Used During the Year

Kind of Food	Beef Liver Cost per Pound	Beef Liver Amount Used	Beef Liver Cost per Pound	Horsemeat Cost per Pound	Ground Beef Cost per Pound	Lungs Cost per Pound	Salmon Egg Meal Total Cost per Month
Month							
July ---	.06	250	.05	446		.01	.10 508 98.7
Aug. ---	.06	475	.05	220		.01	46.55
Sept. --	.06	461	.05	371	.06	.01	105.28
Oct. ---	.06	378	.05	339	.06	.01	121.96
Nov. ---					.06		77.25
Dec. ---	.06	540	.05	402	.06	.01	152.11
Jan. ---	.06	45	.04	335	.04	.01	76.38
Feb. ---	.06	275	.04	319	.04	.01	85.61
Mar. ---	.06	263	.04	240	.04	.01	101.21
Apr. ---	.06	1169	.04	332	.04	.01	140.1
May ----	.06	462	.05	176	.04	.01	96.86
June ---	.06	613	.05	126	.04	.01	96.47

Totals,		\$931		3313			\$1163.81

egg a

Record of egg shipments

Species	Number shipped	Name and address of Applicant	Date of shipment	Method of packing	Number of eggs per tray	Number of eggs per ounce	Condition of eggs on arrival at destination
Chinook Salmon	60,000	State Game Dept. Evergreen, Idaho	Oct 1	Tray	3,000	80	No report
Rainbow Trout	30,000	Oregon Game Commission Union, Oregon.	May 14	"	3,000	250	Good.
Rainbow Trout	62,000 <u>182,000</u>	U. S. Fisheries Sta. Birdsview, Wash.	Apr. 28	"	4,000	260	Good

RECORD OF "FOREIGN" EGG SHIPMENTS RECEIVED AT THE STATION

SPECIES	RECEIVED FROM	NUMBER	NUMBER HATCHED	FINAL DISPOSITION OF FRY OR FINGERLINGS	
				Reserved for brood stock	Distributed in public waters. Give numbers of fish and name of waters stocked
Black Spotted Trout	Fisheries Sta. Yellowstone, Park, Wyoming.	800,000	735,000		350,000 in Boise and Snake Rivers Rest on hand
Eastern Brook Trout	Creede Fisheries Station, Creede, Colorado	199,600	164,600		60,000 in Salmon Reservoir. Rest on hand.
" " "	Idaho Game Dept., Ashton, Idaho.	50,000	35,000		
" " "	Oregon Game Dept., Bend, Oregon.	250,000	236,000		
" " "	Washington Game Dept., Spokane Wn.	250,000	175,000		
Lochleven Trout	U.S. Fisheries Sta. Bozeman, Montana.	250,000	241,000		100,000 in Salmon Reservoir.
Rainbow Trout	U.S. Fisheries Sta. Manchester, Iowa.	207,500	186,000	100,000	
" " "	Meader Trout Farm Pocetello, Idaho.	262,000	240,000		151,000 Boise & Sawtooth Nat'l Forest

STATEMENT OF FISH AND EGGS RECEIVED
FROM OTHER SOURCES DURING
FISCAL YEAR 1954

Species	Number	State if Green of Eyed Eggs and/ or mat Size of Fing.	Station or Source from which received
Blackspotted Trout	800,000	Eyed	Fisheries Sta. Yellowstone Prk. Wyoming
Eastern Brook Trout	199,600	Eyed	Fisheries Sta. Creede, Colorado
" "	50,000	Eyed	Idaho Game Dept. Ashton, Idaho
" "	250,000	Eyed	Oregon Game Dept. Bend, Oregon
" "	250,000	Eyed	Washington Game Dept. Spokane, Wn.
Cannock Salmon	274,000	Eyed	Fisheries Sta. Salmon Idaho
Lochleven	250,000	Eyed	Fisheries Sta. Bozeman, Mont.
Rainbow Trout	207,500	Eyed	Fisheries Sta. Manchester, Iowa.
" "	262,000	Eyed	Header Trout Farm Pocetello, Idaho
" "	715,000	Eyed	Fisheries Sta. Salmon, Idaho

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Spawning Season, Character of Eggs, Incubation Period, Etc.

Species	Spawning Season	Chara-cter of Eggs	Average Number per Fish	Number per Ounce	Maximum Egg Production		Incubation Period		Fry
					Number of Eggs	Weight of Fish	Eye Spots Appear	Incubation Completed	
Rainbow Trout	Nov 10 to Feb 10	poor	500	250	1100	2 1/2 lbs	12 days 58 degrees	27 days 58 degrees	Yolk Sac Absorbed 12 days 58 degrees

Give time in days with mean water temperatures

Statement of Spawning Season at Various Points of the Species Handled,
With Water Temperatures at the Beginning and End Thereof.

Station or Collecting Point	Species	Spawning Season		Water Temperatures	
		From—	To—	Beginning of Season	End of Season
Hagerman, Idaho	Rainbow Trout	Nov. 10	Feb. 10	58 deg.	58 deg.

This statement must cover the spawning of brood fish, and at all collecting points.

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Report on Station Personnel

Name of Employees	Desire Regarding Transfer	Married or Single	Number of Dependents
Hagerman, Idaho Station			
J.R. Russell	None desired without promotion	Married	Four
Van A. Heffner	" " " "	Married	One
Eddie W. Fentrass	Satisfied, but would consider transfer to Eastern Station	Married	One
Harry D. Baer	None desired without promotion	Married	Two

Give preference as to station or stations

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DEPARTMENT OF COM BUREAU OF FISHERIES

11-1951

REPORT OF EXPENDITURES FOR TEMPORARY LABOR at Hagerman, Idaho.

Number of men employed	Rate of pay per day	KIND OF WORK	Total expended under each rate of pay.	Buildings	Food, water supply, drinking	Clothing	Tools and appliances	Fuel equipment and machinery	Fuel and lig
July									
1	\$4.50	Carpenter	72.00	86.00	56.00	103.50			
1	3.00	Laborers	219.00						
1	5.00	Plumber	18.75					18.75	
1	4.50	Carpenter	13.50					13.50	
5	3.00	Laborers	260.25			90.75		9.00	
Sept. 1	4.50	Carpenter	54.00	18.00	36.00				
1	4.50	Truck Operator	67.50						
4	3.00	Laborers	160.50		84.00	16.00			
Oct. 1	4.50	Truck Operator	88.50		99.00	54.00			
5	3.00	Laborers	184.50	86.00	24.00				
Nov. 1	4.50	Carpenter	76.50	76.50					
5	3.00	Laborers	189.75	63.00					
Dec. 1	4.50	Truck Operator	135.00						
2	3.00	Laborers	97.50	9.00				42.00	12.00
1	5.50	Carpenter							
			\$1548.75	\$365.50	\$342.50	\$263.25		\$89.25	\$12.00

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STATEMENT OF SALARIES PAID REGULAR EMPLOYEES

Base salary of Supt.-----	\$2600.
Base salary of Foreman-----	\$1740.
Base salary of Apprentice Fish Culturists-----	\$1200.
Base salary of Apprentice Fish Culturists-----	\$1200.
Total-----	\$6740.00

DEDUCTIONS

Total administrative deductions:

15% July 1 to Feb.1-----\$570.15

10% Feb.1 to June 30-----\$280.85

Total deductions for quarters--\$459.92

Total deductions for furlough--\$149.68

Total deductions-----\$1440.60

Net salaries paid-----\$5299.40

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RECOMMENDATIONS

One new cottage of 5 rooms for living quarters for permanent employees

One, half ton capacity truck with delivery type body.

Governor control on nozzle furnishing water to water wheel at power house to regulate fluctuation in load on generators furnishing electricity for station requirements.

COOPERATION

The State Game Department and Sportsmen's Organizations in this section cooperate with the Bureau to the fullest extent.

PUBLIC SENTIMENT

Public sentiment generally very favorable. Local people much interested in Bureau's work.

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Summary Report of Public Works Administration Project.

Hagerman, Idaho.

OCT 16 1992

Name of Project:

Public Works Administration- 603/3640.12-National Industrial

Department of Water Resources
Southern Region Office

Recovery- Hagerman station, Idaho. Commerce Fisheries, 1933-35

Geographic Area Covered:

U. S. Fisheries Reservation, located in Gooding County,
Idaho, near the town of Hagerman.

The original appropriation for the establishment and construction of the Hagerman, Idaho, station, was not of sufficient amount to provide living quarters for all permanent employees of construct the necessary ponds and make other improvements required, in order to fully equip and balance the station for the rearing of trout.

On September 16, 1933, advice was received from the Bureau Washington Office that \$5,000 had been allotted from FWA funds to the Hagerman, station for reconditioning and repairs to hatchery, building residences and other buildings, including repairs to and reconditioning of ponds, water systems, pipe lines etc. On October 2, men were employed to carry out this program.

Work accomplished:

One pond was built in a natural spring bed tributary to Riley Creek. Dimensions: 75 feet long 24 feet wide. A concrete floor 3 feet wide was built on solid footing across the lower end of this waterway, with concrete piers set on the floor 4 feet apart. These piers were equipped with slots to accommodate dam boards for regulating the depth

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of water in the pond and for screens to keep the fish from escaping. This pond will accommodate 2,000 fish 4 inches in length.

In order to control the height of water and permit the draining of the small lake on the property, so as to utilize this body of water for retaining brood trout, it was necessary to construct an entirely new dam at the outlet of this lake. The dam at this point which had been in use for many years, was no more than a dirt fill with a small spillway on one side and a irrigation canal leading from the other. A section of this old dam was dug out and as the lake drained the remainder of this fill washed away clearing the foundation for the concrete spill way and dam. The new spillway was constructed in the center of the stream bed. A concrete floor 32 feet long reinforced with steel and set on rock was constructed across the main part of the channel. Concrete walls extending lengthwise of the floor and ten feet high were built on each side of this floor. A concrete pier of the same dimensions was also set in the center. These walls and the pier in the center were provided with slots for dam boards for regulating the depth of water and for screens to prevent the fish from escaping. Concrete walls ten feet high extend to each shore from the sluice-way. A rock and dirt fill 16 feet wide was made back of the shore walls and a bridge provided on top of the sluice-way walls so as to provide a road across the outlet at this point. The overall length of this dam is 75 feet and ten feet high.

Buildings:

A singled boarded building size 16 x 32 feet acquired with the property was remodeled into living quarters for permanent employees. This building was ceiled and partitioned, also papered on the inside, provided with brick chimney, porches, new shingle roof, running water,

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bath room fixtures and kitchen sink. There are three rooms and bath. Two coats of paint were also added to the exterior of this building.

Foremans Quarters:

Two additional bedrooms were added to the foremans quarters each 12 x 12 with clothes closet between. These rooms are of double board construction, shingle roof, concrete foundation, finished inside with paint and varnish, outside two coats of paint. Both of the above described are wired for and equipped with electric lights.

Hydro-Electric Plant:

Machinery to generate electricity for station requirements; the machinery in use at the time the property was taken over by the government was poorly installed and not of sufficient capacity to meet the station requirements. The building for housing the new machinery was completely rebuilt with the C.S.A. labor. The amount of water available for power purposed, accessible to the power house amounts to approximately $5\frac{1}{2}$ second feet. The head between intake and discharge is 65 feet. The water is carried through a wood stave pipe. The distance is about 325 feet. The dimension of this pipe is as follows: 16" diameter pipe first 16 feet from reservoir; reduced to 10" diameter next 100 feet; reduced to 8" diameter from that point to nozzle. Power wheel 6 feet diameter, Pelton type undershot wheel, water delivered to wheel buckets through 3-3/4" diameter nozzle. Power transmitted to counter shaft with belt from 48" diameter pulley to 24" diameter pulley. Power wheel turns approximately 140 revolutions per minute. Counter shaft belted to two D.C. generators 6 and 4 k.w. capacity, turning 1280 and 1320 approximately,

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R.p.m. Grinder for preparing fish food is also operated from counter shaft. Plant is also provided with switch board and ammeter and voltmeter and rheostat for regulation. Electricity is transmitted to various buildings by transmission line strung on poles. #4 bare copper wire is used for this purpose. Other minor repairs were made to buildings ponds and equipment which are not considered of enough importance to describe in detail yet add to the efficiency of the station.

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Department of Water Resources
Southern Region Office

EXHIBIT

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DEPARTMENT OF COMMERCE

BUREAU OF FISHERIES

ANNUAL REPORT, HAGERMAN, IDAHO STATION

Operations under this heading were limited to the production of trout. The usual methods of fish culture was in practice and the work was accomplished by the regular station personnel. Every effort was made to raise as many fish and to as large size as was practical with the funds provided for fish food and personnel. The station allotment was a little less than the previous year, but to offset this the cost of fish food was less, therefore, the amount produced was about the same as compared with 1938.

Changes in station personnel were as follows:

Van A. Heffner, Foreman, retired on account of disability, effective July 1, 1939. March 13 to June 30, 1939, granted accumulated sick and annual leave. Mr. Ralph L. Young, Apprentice Fish Culturist in charge of Salmon station resigned, effective May 24, 1939. Harold C. Kronholm, Apprentice Fish Culturist, assigned to the Salmon station March 15. Mr. Robert J. McElrath, Apprentice Fish Culturist, transferred from the Spokane Washington station, reported for duty at Hagerman, April 6, 1939. Mr. Melvin L. Hoglund, Apprentice Fish Culturist, transferred from Clackamas, Oregon to Hagerman on March 18, transferred to Yellowstone Park April 14. Temporary labor was employed in the amount of \$40.00.

There was no loss of fish through disease or other unnatural causes or damage to station property during the year. As in the past, an agreeable spirit of cooperation exists between the Bureau, the Fish and Game Department of Idaho, Forest Service and other Government agencies operating in this territory. The station force, through their hard work and loyalty are it is believed, deserving of much credit for the successful operation of this station during the year.

Fish Cultural Review:

The rearing of trout to the 4 inch length or larger size required feeding in considerable quantities. This work occupied the services of at least two of the station personnel steadily and received first consideration of the entire station force. The number of eggs taken from station brood stock was disappointing due to the large number of barren females. Egg collections exceeded the number taken during the previous year but did not meet the station requirements. The reason for this large percentage of barren females is not definitely known but is believed that the use of seal meal for food in quantities as used last year is the cause of the excessive number of fish that did not yield eggs. The adult fish were thin, did not make the growth expected and fully seventy percent of the females were barren of eggs. Through the aerating and cooling of hatchery water by spraying it through the air into a tank considerable improvement was made on the egg loss as compared with previous years. The water temperature was lowered about 4 degrees daily. This extended the incubation period of the eggs from 21 days with the regular hatchery

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water of 58 degrees to 30 days with 54 degree water. The weather was unusually mild, the temperature at no time below the zero mark, making working conditions favorable through out the winter. It is believed that under normal weather conditions the hatchery water supply temperature can be lowered to 50 degrees by this aerating system which should still further improve the hatch.

Vessels:

Expenditures under the heading of vessels was limited to the general repair and maintenance of small boats used in this field.

Ponds:

Necessary repairs were made to ponds in use for the rearing of fish. This necessitated the installation of new screens and frames in many instances. The construction of additional ponds was made possible through the allotment of funds through the F.W.A. and W.F.A. This work is more fully described under the heading of Federal Projects.

Station Capacity- with recent improvements under W.F.A. and F.W.A. allotments there is sufficient pond and tank space available at the station to rear to the 4 inch fingerling stage 4,000,000 trout. This would necessitate a permanent personnel of Superintendent, Foreman or Fish Culturist and 3 Apprentice Fish Culturists. It is estimated that the station allotment, in order to carry out this program should be increased to \$8000.00 per year. This to be expended for food and transportation incidental thereto.

In order to carry out this program it will be necessary to provide the necessary eggs for producing this number of fish from some other source than Hagerman. The spring supply can be had providing all of the Bureau's share of eggs collected at Williams lake can be distributed between the Hagerman and Salmon stations. Fall or winter supply will need to be provided from some other source. I would recommend the establishment of an egg taking station in some proven field similar to the Header location in the vicinity of American Falls or Springfield or in the upper snake river area in the vicinity of Big Springs. In either of these places it is known that the brood fish grow larger as compared with this section of the Snake river and it is also a well known fact that the eggs produced at these points are of a much better quality. It may be possible to produce a limited number of eggs from station brood stock at Hagerman but to date the results have been disappointing. The number of eggs per fish and the quality has not been good. It has been the history when attempts have been made of producing trout eggs from the spring water of this section where the temperature is 58 degrees that the yield has been generally unsuccessful. In the early days on the Mays Ranch at Niagara Springs it is understood that up to \$50,000.00 was spent in the attempt to produce rainbow trout spawn without success. The Snake River Trout Company owned and operated by J. W. Tingey, who marketed 80,000 pounds of dressed trout last year has given up his egg production business entirely and purchases all of

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his eggs from other sources claiming it is not practical to raise salmon in this water due to the high temperature and poor quality of the eggs. On the Dannon property near Twin Falls an attempt also was made to produce eggs without success. It is believed that further experiments should be conducted in an attempt to produce a strain of fish that will produce eggs of a good quality in this temperature of water but this process may take several years and in the mean time I would recommend the building of a brood stock supply at some point where it has been proven that a good quality of eggs can be produced.

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SEAL MEAL EXPERIMENTS

On January 11, 1938 the Washington Office issued instructions that experiments were to be conducted in the feeding of brood stock with Seal, Salmon and Kelp meals in certain quantities during 1938. The Seattle Office transmitted these instructions to the stations where these experiments were to be conducted and also furnished a diet schedule to be followed. This schedule called for percentages of feed as follows:

BROOD STOCK FEED

Food:	Liver	80%
	Tripe	25%
	Horse Meat	30%
	Seal Meal	10%
	Salmon Meal	10%
	Kelp Meal	05%

During August	2 feeds a week	30% ea.
" September	1 " " "	50% ea.
First half October	1 " " "	25% ea.

No feed after October 15.

This schedule was followed throughout the year, the amounts were reduced during August, September and first half of October. No artificial feed was fed after October 15. The fish were transferred from the lake to retaining pens between December 1 to 10. Spawning operations began on December 15, 1938 and ended on January 25, 1939. A total of 363,000 eggs were collected from approximately 3000 brood fish. Of this number 720 produced eggs which is an average of about 500 eggs per fish. The majority of these fish were about 2½ years old although there were a percentage of fish 3 years of age or older. Even these fish averaged less than 1000 eggs per fish and many of them were barren.

CONCLUSION:

One has only to examine the record, the total number of females and the total number of eggs collected to decide that the results were generally unsatisfactory. It will be noted that less than 25 percent of the fish produced eggs and those that were productive only yielded a small number of eggs per fish. After feeding and experimenting with seal meal for three years on all sizes of fish, it is the belief that it is not beneficial in any sense for the raising of fish of any size or age. It may be possible to feed this material in small lots without serious results but it is doubtful. It may be possible to utilize a percentage of this meal when mixed with

liver or other proven fish food but it is doubtful, in my opinion,

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if material growth can be obtained. I would suggest the feeding of the meal straight rather than contaminate good food by mixing it with a percentage of seal meal.

As for the Salmon and Kelp meal, it is believed that some favorable results can be obtained by mixing small amounts with proven fish foods.

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SUN VALLEY IDAHO OPERATIONS

On December 12, 1938 an agreement was entered into between the Bureau of Fisheries and the Utah Parks Company for the improvement of fishing conditions in the waters of the Lemhi, Sawtooth, Challis and Boise National Forests and vicinity. It was also agreed that the Bureau of Fisheries was to stock Sun Valley lake each year with 6000 or more Rainbow trout from 4 to 6 inches in length, these fish are to be retained for brood stock. The Bureau was also to furnish the services of spawn takers for the collecting of eggs, also raise the fish and return them to the waters of the National Forests indicated above. The Utah Parks Company agreed to provide food and necessary care of the brood fish in the Sun Valley lake. Prior to this agreement the Utah Parks Company had purchased and liberated several thousand adult fish in the Sun Valley lake. A percentage of these fish had been taken by hotel guests and a number undoubtedly escaped during the spring of 1938 when it was necessary to open the large valve at the outlet of the Sun Valley lake during the spring run off of Trail creek in order to prevent damage to property adjacent to the dam.

In compliance with this agreement and upon receiving marking instructions from the Seattle Office, 8,000 rainbow trout ranging in size from 5 to 6 inches in length were marked by removing the right ventricle fin. As soon as the scars were healed on account of this marking, the fish were transferred to Sun Valley lake. This transportation was accomplished by the U. S. Forest Service with their tank equipped truck. Date, December 1-2, 1938.

In order to determine the number of adult trout entering Trail creek to spawn during the spring of 1939, traps were installed in this stream near where it empties into Sun Valley lake in order to intercept and capture these fish for spawning purposes. Traps were installed on April first and removed on May 15. During this time 140 adult fish were taken in the traps which yielded 122,000 eggs. These eggs were transported to the Hagaman station in the green stage. The loss was normal and the hatch indicated the results were satisfactory. These eggs have hatched and when the resulting fish reach the proper size they will be returned to that District in accordance with the agreement.

Mr. *Justus* Justus, Fish Culturist from Bozeman, Montana was assigned to this field and was in charge during egg collecting operations. A copy of the summary prepared by Mr. Justus is enclosed.

cc. Utah Parks Company, Sun Valley, Idaho.

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Bozeman, Montana

May 18, 1939

Regional Director
Bureau of Fisheries
Seattle, Washington

Dear Mr. Foster:

This is a short summary of operations for the Rainbow spawn taking activities just completed at Sun Valley, Idaho.

When I arrived there April first, the rack was in the creek at a point approximately 150 yards above the head of the lake. This point being the most logical place for a trap as there was sufficient bank on each side of the creek to keep the water from running around the rack except in case of extreme high water. As it proved out, some fish spanned on the gravel bars below the rack just at the head of the lake. However, I never saw more than six or eight fish on these gravel bars at any one time.

From the reports of the number of large fish planted in the lake I was in hopes that we could collect perhaps a half million eggs. As it was, eggs were taken from only 140 females, this number being all that came into the trap, excluding the males. The females outnumbered the males three to one. Most of the fish were small and from the 140 females a total of approximately 122,000 eggs were taken. The first eggs were taken April 18th and the last ones on May 15th. Many of the fish that were planted in the lake went out during the extreme high water of the spring of 1938. When the water in the lake was clear and the visibility was good, I could not see more than 15 or 20 fish at one time in the lake.

I enjoyed being able to work at Sun Valley but was disappointed in the number of eggs taken. I left Sun Valley on May 16th and arrived at Bozeman the following day.

Very truly yours

Lloyd Justus
Fish Culturist

Through Mr. Russell.
cc Mr. Russell

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OUTPUT OF FISH AND EGGS DURING THE FISCAL YEAR 1939

SPECIES (Common name)	EGGS		FRY			FINGERLINGS, YEARLINGS, ETC.		
	Number shipped to other Bureau hatcheries	Number shipped to State conservation departments	Number dis- tributed to applicants	Number planted locally	Number assigned to State conservation departments	Number dis- tributed to applicants	Number planted locally	Number assigned to State conservation departments
Rainbow Trout	133,380					366,000 + 341,960	106,550 123,700	56,750 8,000
*Brook Trout						10,500 110,000	5,545	60,000 None
*Blackspot Trout						74,500 126,200	112,000 59,000	110,000
*Sockeye Salmon						138,400 151,000	43,000 870	24,000 8,000
* No eggs taken at Hagerman Idaho station.								
Fish were distributed by Forest Service and State Game Department Trucks.								
TOTAL	133,380					789,160	189,115	16,000

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STATEMENT OF FISH AND EGGS HANDLED DURING THE FISCAL YEAR

SPECIES		Eggs		Fry	
Common name	Scientific name	Collected	Received by transfer or purchase	Number hatched	Percent hatched
Rainbow Trout	Salmo irideus	763,000 *363,000	** 1,315,570 ** 530,000	1,740,655 574,483	.756 .756
Brook Trout	Salvelinus fontinalis		** 1,103,000 ** 250,000	985,819 226,000	.904 .819
Blackspotted Trout	Salmo lewisi		** 579,100 ** 375,000	555,642 352,500	.94 .975
Sockeye Salmon	Oncorhynchus nerka		** 1,747,500 ** 506,000	461,220 471,000	.97 .93
TOTAL		363,000	1,661,000	1,623,983	

* Station Brood Stock
and Received by Transfer

Indicate by footnotes: 1. Eggs from wild fish. 2. Eggs from brood stock. 3. Eggs by transfer. 4. Eggs by purchase.

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RECORD OF DISTRIBUTION

(Fiscal Year)

SALMONIDAE

10

SPECIES	NUMBER OF EGGS	NUMBER OF FRY	NUMBER OF FINGERLINGS, ETC.				TOTAL	ON HAND AT END OF YEAR
			No. 1-2	No. 3-4	No. 5-7	Legal size		
Rainbow Trout	760,000 133,380		7,000 22,000	218,550 267,900	366,950 183,760	13,000	630,500 473,660	634,684 1,319,760
Brook Trout	none taken			96,000 107,000	6,500 8,545		108,500 113,545	106,498 814,029
Blackspotted	" "		78,400 147,800	114,000 56,500	105,500 40,900		299,400 245,200	none 102,692
Sockeye Salmon	" "		462,200 159,870	222,900 159,870	47,000		531,400 159,870	376,748 150,500
TOTAL...			347,600 329,670	689,750 591,270	520,950 233,205	13,000	1,564,300 994,275	9,366,981 1,117,930

Figures must agree with reports of distribution previously submitted.

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Hagerman Idaho

(Station)

Distribution by States

STATES IN WHICH DISTRIBUTED	SPECIES	SIZE		
		Eggs	Fry	Fingerlings, yearlings, etc.
<i>total</i> Idaho Nevada Washington	Rainbow " "	50,000 80,000 53,380		553,800 462,460 11,800 10,000 57,500
<i>Oregon</i> Idaho Nevada	Brook "			86,498 92,500 20,000 10,000
Idaho Nevada Wyoming	Blackspotted " "			159,900 268,900 37,600 31,000 17,800
Idaho	Snakeeye Salmon			159,870 531,400

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REPORT OF DISTRIBUTION BY STATION MESSENGERS

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NUMBER OF TRIPS	TOTAL NUMBER OF SPECIES CARRIED	MILES TRAVELED			TOTAL COST OF DISTRIBUTION
		Truck	Railroad		
			Free	Paid	
1	10,000	640			37.50
1	7,500	640			37.50
	10,000	400			11.50
	16,500	535			13.50
	5,000	600			3.00
	10,000	400			3.00
	3,000	200			12.50

Distribution by fish cars is not to be considered. If a car messenger is detailed to a station to aid in the distribution he must be considered as a station employee, but if a car man is sent to a station to receive fish for the fish car, the fish to be distributed under the orders of the car captain, no record is to be kept.

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STATIONS OPERATED DURING THE FISCAL YEAR _____

NAME OF STATION	PERIOD OF OPERATION	SPECIES HANDLED
Hagerman Idaho	Entire Year	Blackspotted, Brook and Rainbow Trout, Sockeye Salmon (landlocked).
Sun Valley, Idaho	3-27-39 to 5-15-39 + 1-20 to 5-18-40	Rainbow Trout Eggs.

Give all substations and egg-collecting fields.

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COST OF FISH AND FISH EGGS

SPECIES	COST OF EGGS PER THOUSAND		COST OF FISH PER THOUSAND	
	Green	Eyed	Fry	Fingerlings
Rainbow Trout * Station Brood Stock # Sun Valley	1.11 .79	.03 .08	.05 .60	2.60 2.52 4" to 7" fish 2 - 7"
** Rainbow Trout	received in eyed stage	.10	.05	3.69 2.45 5" to 6" fish 3 - 10"
** Brook Trout	received in eyed stage	.10	.05	2.20 2.41 3" to 5" fish 3 - 6"
** Blackspotted Trout	received in eyed stage	.10	.05	2.75 2.70 2" to 7" fish 3 - 7"
** Sockeye Salmon	received in eyed stage	.10	.05	2.15 2.15 3" to 4" fish 2 - 5"

* Eggs taken from station brood stock.

Eggs taken from wild stock.

** Eggs received by transfer.

Cost of labor and food together with labor, sorting and collecting eggs equals total cost of green eggs.

Indicate by footnotes: Eggs from wild stock; eggs from brood stock; eggs purchased; and eggs received by transfer.

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Wages for Jack & help at Sun Valley
1/2 Kronholms wages for 3 months 95

2012000 Fish planted & on hand
#1954.00 cost of fish food
1300.00 Russell's wages 1/2 2000.00 5340.
690.00 Jack's wages 1/2
1440.00 all Kronholms wages
255.00 McElrath wages
5340.00

200.00 feed
140.00
200.00
540.00

362,000 Hagerman collection
122,000 Sun Valley coll.
485,000 total
\$1,111 Purchase.
485,000 540.00

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STATEMENT OF FISH FOOD USED DURING THE YEAR

KIND OF FOOD	LIVER		SPLEEN		LUNGS		HORSE-FLASH		SEAL MEAL		TOTAL COST PER MONTH
	COST PER POUND	AMOUNT USED	COST PER POUND	AMOUNT USED	COST PER POUND	AMOUNT USED	COST PER POUND	AMOUNT USED	COST PER POUND	AMOUNT USED	
July.....	6¢	1255	4¢	244	1¢	1080	3¢	5335	1/4¢	830	\$258.66
August.....	6¢	1276	4¢	485	1¢	1709	3¢	3715	1/4¢	400	226.50
September.....	6¢	941	4¢	475	1¢	1474	3¢	1606	1/4¢	370	140.20
October.....	6¢	1470	4¢	524	1¢	719	3¢	3000	1/4¢	270	207.70
November.....	6¢	1089	4¢	453	1¢	1307	3¢	2300	1/4¢	230	171.78
December.....	6¢	1062	4¢	599	1¢	2012			1/4¢	136	108.48
January.....	5¢	1223			1¢	1185	3¢	1645	1/4¢	76	128.73
February.....	5¢	945			1¢	1262	3¢	2530	1/4¢	325	137.40
March.....	5¢	1005			1¢	1798	3¢	3070			160.33
April.....	5¢	1591			1¢	2091	3¢	4285	1/4¢	100	222.51
May.....	5¢	1358	1¢	1296	1¢	1838	3¢	3710			190.54
June.....	5¢	1091	1¢	1405	1¢	1091	3¢	1300			115.51
TOTAL.....	5/6	14306	2/4	5483	1	17466	3	31595		2458	2065.32

Furnish supplementary statement for any foods not listed above.

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STATEMENT OF FISH FOOD USED DURING THE YEAR

Kind of Food	SALMON MEAL	Kelp Meal	Total Cost		
Month	Cost per Pound	Amount Used	Cost per pound	Amount Used	per month.
July.....	.022	90			1.98
August.....					
September.....					
October.....					
November.....					
December.....					
January.....					
February.....					
March.....	.022	366			8.05
April.....	.022	133			2.93
May.....					
June.....	.022	210	.0377	24	5.02
Total.....	.022	799	.0377	24	16.49

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SPAWNING SEASON, CHARACTER OF EGGS, INCUBATION PERIOD, ETC.

17

SPECIES	SPAWNING SEASON	CHARACTER OF EGGS	AVERAGE NUMBER PER FISH	NUMBER PER OUNCE	MAXIMUM Egg PRODUCTION		INCUBATION PERIOD		Fry
					Number of eggs	Weight of fish	Eye spots appear	Incubation completed	
Rainbow Trout	12-15-38 1-25-39	Fair	500	280	1770	3/4	12 days * Water Temp. 58 degrees	21 days	10 days
Brook Trout	None Taken	* Good		315			12 "	21 "	10 "
Blackspotted	"	* Good		250			12 "	21 "	10 "
Sockeye Salmon	"	* Good		339			12 "	21 "	10 "
* Eggs shipped in eyed stage from other stations.									
* Water temperature 58 degrees at all times.									

Give time in days with mean water temperatures.

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RECORD OF EGG SHIPMENTS RECEIVED FROM OTHER STATIONS

18

SPECIES	RECEIVED FROM—	NUMBER	NUMBER HATCHED	FINAL DISPOSITION OF FRY OR FINGERLINGS	
				Distributed during fiscal year	Reserved for future distribution
Rainbow Trout	Salmon, Idaho Springville, Utah Sun Valley, Idaho	398,000 50,000 122,000	321,650 40,000 74,633	none none none	306,588 28,557 65,043
Brook Trout	* Hamilton, Mont. Leadville, Colo.	150,000 100,000	135,600 90,400	none none	58,498 48,000
Blackspotted	Yellowstone Park	376,000	353,500	245,200	none
Sockeye Salmon	* Hamilton, Mont.	506,000	471,000	none	576,543
* Montana State Hatchery, All others Federal Hatcheries.					

Give name of station and indicate whether Federal, State, or private.

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Statement of Spawning Season at Various Points for the Species Handled, With Water Temperatures at the Beginning and End Thereof

STATION OR COLLECTING POINT	SPECIES	SPAWNING SEASON		WATER TEMPERATURES	
		From—	To—	Beginning of season	End of season
Hagerman Idaho	Rainbow	2-15-39 12-15-39	2-25-40 1-25-39	58	58
Sunvalley Idaho	Rainbow	4-17-39 4-30-40	5-15-39 5-12-40	42	48

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This statement must cover the spawning of brood fish at all collecting points.

REPORT ON STATION PERSONNEL

(Give preference as to station or stations)

NAME OF EMPLOYEE	DESIRE REGARDING TRANSFER	MARRIED OR SINGLE	NUMBER OF DEPENDENTS
Chipman, Jack R. Fish Culturist	No transfer desired without promotion	Married	4 dependents
Heffner, Van A. Foreman	No transfer desired without promotion	Married	1 dependent
* Kronholm, Harold G. App. Fish Culturist	No transfer desired without promotion.	Married	2 dependents
McElrath, Robert J. App. Fish Culturist	No transfer desired	Married	1 dependent
Russell, James R. Superintendent	No transfer desired without promotion	Single	2 dependents
* Detailed to Salmon Idaho Station.			

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Record of Station Brood Stock
(Salmonidae)

Hagerman Idaho Station

Species	Female Fish			Number of Males	Cost of Food	Cost of Grown eggs per M	Number of eggs oyod	Number of oyed eggs shipped
	Two year olds	Throo year olds	Over throo years					
Rainbow Trout	5000	none	2500	2900	144.00	1.11	363,000	133,380

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STATEMENT OF DISTRIBUTION OF PONDFISHES

3

[illegible]

significant number produced per acre of water and number of acres of water available for the propagation of pondfish.

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REF ID: A66087
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JAN 25 1993

Hagerman Idaho

39.

1	4.00	laborer	40.00
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STATEMENT OF SALARIES PAID REGULAR EMPLOYEES
HAGERMAN AND SALMON STATIONS FISCAL YEAR 1939.

Base salary of Superintendent.....	\$2600.00
Base salary of Foreman.....	1740.00
Base salary of Fish Culturist.....	1380.00
Base salary of Apprentice Fish Culturist.....	1140.00
Base salary of Apprentice Fish Culturist from July 1, 1938 to May 31, 1939 at \$1140.00.....	1026.00
Base salary of Apprentice Fish Culturist from April 1, 1939 to June 30, 1939 at \$1020.00.....	255.00
	<u>\$ 8141.00</u>
 Total salaries paid for July 1938.....	666.66
Total salaries paid for remainder of year.....	7474.34
	<u>\$ 8141.00</u>
 Total Administration Deductions.....	499.92
Total Deductions for Retirement.....	285.25
	<u>785.18</u>
	<u>7355.82</u>
	<u>\$ 8141.00</u>

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RECOMMENDATIONS

Continuation of W.P.A. project for completion of new road between station and state highway #30.

Build a battery of rearing ponds 15' x 50' x 2½ feet for holding and rearing small lots of fish.

One half ton Pickup type truck, reliable truck required for transporting supplies and trout eggs from Salmon to railroad points for shipment and to and from Hagerman station. Estimated cost \$650.00

COOPERATION

The U. S. Forest Service, State Fish and Game Department and Sportsmen's Organizations and the general public cooperate with the Bureau to the fullest extent with its work.

PUBLIC SENTIMENT

Public sentiment favorable, claim much improvement in fishing in streams where fish 4 inches in length and larger have been liberated. Fishermen in this locality claim streams and main river considerably better than before station established even though there are more fishermen.

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W.P.A. Operations Review:

On May 25, 1938 the Office of State Administrator, Boise, Idaho issued a letter of authorization for improvements to the Hagerman station under W.P.A. Project CP 365-92-2-6 and approved by the President under date of April 22, 1938. The total amount of this project amounted to \$9276.00 including the Sponsors contribution. The description of this project reads as follows:

Make general improvements to the Hagerman Fish Hatchery near Hagerman, Gooding County. Work includes general improvements to station; re-constructing dams, traps and rock walls to retain brood stock; rebuilding roads; and performing appurtenant and incidental work. Federally owned property. Permission of the U. S. Department of Commerce, Bureau of Fisheries, has been obtained. In addition to projects specifically approved. Sponsor: U. S. Department of Commerce, Bureau of Fisheries.

Under date of June 8, 1938, fourteen men reported for duty at the Hagerman station, assigned to work on this project. Operations were continued until September 4, when the crew was transferred to Project number CP 702-2-25 which was made available through the Office of U. S. Bureau of Fisheries, Washington C. C. This project was reopened on March 27, 1939 at which time CP 702-2-23 was expended, and has continued to June 30, 1939.

Work Accomplished:

Concrete Aerating Tank- The clearing and excavating of a site for a concrete tank 24' X 30' X 4' located 30 feet directly north of hatchery building for cooling and aerating hatchery water was begun on June 8. This tank is constructed throughout of reinforced concrete and is set on rock foundation. The walls are 4" thick and reinforced every 8 feet with 12" x 12" concrete pilasters. This tank was planned and directed by the station personnel. The manual labor, including the building of forms, was accomplished with W.P.A. labor. Work was completed on July 23.

Rearing Pond- Location, North of hatchery building approximately 150 feet, source of water supply, springs, pond constructed in natural spring bed. Dimension of pond 19' x 52' x 3' with concrete bypass for diverting water supply during draining process. Approximate floor area 980 square feet. Clearing and excavating accomplished under this project, concrete work done with W.P.A. labor described under W.P.A. Project.

Rock Walls- Rock wall was laid up around rearing pond No. 2. Length 125 feet average height 5 feet, protection of concrete walls and to eliminate dirt sliding into pond.

Rock wall to entrance of power house, length 75 feet average height 4 feet. To eliminate dirt sliding into road to power house.

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Continuation of W.P.A. Project GP 565-92-2-6 reopened March 24, 1939.

Improvement to grounds:

Clearing and leveling hatchery grounds in vicinity of ponds, improving and grading station roads leading from highway to station, was accomplished where necessary. Gravel pit was stripped of overburden and approximately 50 cubic yards of sand and gravel screened for concrete.

Rearing Pond- Location, Northwest of brood stock lake approximately 50 feet distance. Source of water supply springs, pond built in natural spring bed. Dimensions of pond 32' x 34' x 3 1/2' deep, gravel bottom. Floor area 1088 square feet. Rock wall pointed with concrete forms 3 outside walls of pond. / ^{30 ft. x 30 ft.} Inside walls governing flow of water into pond constructed of concrete, bypass controlling flow of water when draining pond, constructed of concrete. Headgates and outlets constructed of concrete, height of water in pond controlled by removable splash boards.

Raceways- Location, Northwest of Broodstock Lake, distance approximately 100 feet distance. Constructed by widening and improving ditch leading from new lake pond to retaining ponds for brood stock, width 8 feet, length 260 feet with checks every 85 feet, depth 2 feet, constructed for retaining small fish for broodstock purposes.

Rockwall- Located at south end of garage, length 50 feet 44 inches high. Necessary as protection wall between garage and ditch.

Rockwall- Location, east end of hatchery building, purpose to eliminate possibility of earth slides against loading platform. Length approximately 60 feet, height 3 1/2 feet.

Sanitary Toilet- Location, east of Garage approximately 200 feet distance. Dimensions 9' x 9' x 9' walls, division partition in center, concrete base wood frame walls and roof covered with corrugated iron. Equipped with flush system and concrete septic tank.

Auxiliary water supply for ponds at lake outlet- Location, headwaters of Riley creek, spring No. 5. Purpose, auxiliary water supply for ponds at lake outlet. Water diverted through wooden flume 12" x 12" for a distance of approximately 140 feet into raceway and transmitted to ponds at lake outlet.

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June 8, 1938 to June 30, 1939

SPONSORS CONTRIBUTION

Supervising Operations Equipment & Material	\$1077.50 <u>1340.63</u>	
Total amount sponsors contribution to June 30, 1939	\$2418.13	
Sponsors contribution to June 30 Material on hand June 30, 1939	\$2418.13 <u>231.77</u>	
Total amount sponsors contribution	\$ 2700.00	\$2700.00
FEDERAL FUNDS		
Expended for labor, June 30, 1939	\$5268.55	
Expended for Material June 30, 1939	<u>825.00</u>	
Total amount expended June 30, 1939	\$6093.55	
Amount expended June 30, 1939	\$6093.55	
Balance on hand June 30, 1939	<u>432.45</u>	
Total amount Federal Funds	\$6576.00	\$6576.00
Total amount sponsors contribution	\$2700.00	
Total amount Federal Funds	<u>6576.00</u>	
Total amount Project CP 305-92-2-0	\$9276.00	\$9276.00

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P.W.A. Project OP 752-02-89 and W.P.A. Project OP 702-2-23 Hagerman station Idaho; Review:

Under date of July 12, 1938 notice was received from the Washington Office that an allotment in the amount of \$10,000.00 of P.W.A. funds had been made for repairs and improvements to the Hagerman station. Authorization was furnished to purchase material and employ labor for improving the physical condition of the station. On August 1, 1938 advice was received from the Washington Office that \$5000.00 had been allotted from W.P.A. funds for labor only to be utilized for general improvements to the station. Authority was granted to work these two allotments out in conjunction with one and the other. Material was assembled and work was started under the P.W.A. allotment on August 1, 1938. There was some little delay relative to the clearance of the W.P.A. project therefore work did not begin under this heading until September 23, 1938. Work continued on these two projects through the winter. The W.P.A. project was expended on March 23, 1939 and work under the P.W.A. allotment discontinued, although a small balance was carried until June 30, 1939.

WORK ACCOMPLISHED:

Dwelling-Wood frame with full concrete basement, shingle roof, rustic board siding, maple floor in kitchen and breakfast room, remainder fir flooring, walls plastered and painted. Main floor plan, living room, kitchen and two bedrooms with bath between. Concrete basement divided into garage, coal bin, room partitioned off for sleeping quarter, remainder used for washroom. Stairway to attic, subfloor through center. Approximate cost - \$4,757.00. House completed on March 25, 1939 and occupied April 1st, 1939. Rental \$10.00.

Rearing Ponds- Location, North of hatchery building approximately 150 feet distance, source of water supply, springs, pond constructed in spring bed. Dimension of pond 19' x 52' x 3' concrete floor and walls bypass along north side for diverting water during draining process. Approximate floor area of pond 980 square feet. Outlets and inlets water flow controlled by removable flesh boards. Excavation accomplished under W.P.A. Project Number OP 355-92-2-6. Costs chargeable to P.W.A. OP 752-02-89 and W.P.A. OP 702-2-23 \$1415.00. (See financial sheet for detailed statement)

Hatchery water cooling System- Location, Approximately 30 feet north of hatchery building. Concrete tank 24' x 30' x 4' built for aerating and cooling hatchery water supply. Tank proper constructed under W.P.A. OP 355-92-2-6. Water supply spring number 15 delivered from spring to aerating tank as follows: Through wooden flume to surge tank, distance of approximately 50 feet, surge tank to outlet of aerating tank through 6" diameter wire wound wooden pipe. Approximate head pressure 50 feet. Water is delivered to the top of tank wall through 3" diameter galvanized iron pipe tapped every four feet for 3/4" diameter fitting. Fittings consist of 2 pieces of 3/4" pipe fitted with 1/8" diameter holes at 4 inch intervals. Water sprayed into tank through these openings. Cost, exclusive of tank proper, including flume and pipe line

P.W.A. and W.P.A. \$1103.50

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Rearing Ponds-Lake Outlet- Location, near outlet of Brood stock lake, Dimensions 260' long, 20' wide, and 2½ feet deep. Divided into 5 compartments, equipped with bypass full length of south wall used for diverting fish into lake and bypassing water during cleaning and draining of ponds. Purpose, retaining, feeding and handling of brood fish. Ponds can also be utilized for young fish when brood stock is held in lake. Divisions consist of wooden slat racks set between piers. Height of water controlled by removable flash boards between piers. Side walls and piers including bypass walls and floor, concrete. Cost P.W.A. and N.P.A. \$1967.00. Water supply, lake outlet, aux. supply overflow from raceways.

Painting-Station Buildings were painted regulation colors as follows: Hatchery building two coats outside; Superintendent's residence two coats outside; Foreman's residence two coats outside, living room, dining room, kitchen and bath, two coats inside; Apprentice Fish culturist quarters #3, two coats all rooms inside. Apprentice Fish Culturist quarters #4, floors, living room, dining room, bedroom and bath room, two coats inside; Fish Culturist quarters #6, new house, two coats outside, three coats all rooms inside. Office, two coats inside. Blacksmith shop, two coats outside. Toilets, flagpole and garage doors also given two coats. P.W.A. and N.P.A. costs \$1157.25.

Repairs to Power House:- Foundation, rock wall torn out and replaced with concrete foundation wall, dimensions of new wall 30 feet long 4 feet high, 10 inches thick. Installed 6 K.W. generator and switch board (transferred from Ennis, Montana station) including rewiring switch board and installation of panel instruments. P.W.A. and N.P.A. costs \$425.00.

New Road and Bridge- Purpose, to shorten the distance one mile from station to State Highway #30, also eliminate two steep hills and avoid ¾ mile of north and south road that becomes impassable during average winter due to snow drifts. Total length of new road 1 mile, width 40 feet, total length of road graded 5/8 mile, total amount graded 1/4 mile. Material on grounds for construction of bridges. Total cost to date P.W.A. and N.P.A. \$2396.00.

Pond #2 Riley Creek- Location, in bed of Riley creek, east of road and south of ponds #1 and 2. Purpose, rearing pond. Dimensions, 28' x 75' x 3', concrete walls, gravel bottom, bypass full length of north wall for drainage and overflow. Water controlled to pond by removable flash boards set in grooves between concrete piers. Floor area of pond approximately 2100 feet. Rock wall was laid up along south side of pond above concrete wall to prevent creek bed from sliding. Length of wall 75' x 6'. Total costs P.W.A. and N.P.A. \$275.00

Excavating pond site- Location, front and south of hatchery building. Dimensions 100' x 100' x 2'. Approximately 740 cubic yard excavated. Proposed rearing pond. Purpose, retaining and raising trout. Total costs, labor only P.W.A. \$378.00.

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Flag Pole- Location, 33 feet west from front of office building. Wooden pole 60 feet high, 6" diameter at butt. Concrete foundation 4' high, pier. Pole clamped to concrete pier. Costs P.W.A. \$37.00

Garage Doors- Location, west end of garage storage shed. Dimensions 4' x 8', 4 doors, equipped with steel overhead track and rollers. Doors on north side of garage also rebuilt and repaired. Costs, P.W.A. \$50.00 .

Wiring Station Grounds- Location, vicinity of power house, near dwelling, brood stock lake and ponds at lake outlet. The entire station electric wiring system was checked and repaired when necessary. Four additional poles were set and new wire strung to new house and ponds at lake outlet. Total cost of labor and material P.W.A. \$129.75.

Rearing Pond- Location, Northwest of brood stock lake approximately 50 feet distance. Source of watersupply springs, pond built in natural spring bed. Dimension of pond 32' x 34' x 3' deep, gravel bottom. Floor area 1080 square feet. Rock wall pointed with concrete forms 5 outside walls of pond. South and inside walls governing flow of water into pond constructed of concrete, bypass controlling flow of water when draining pond, constructed of concrete. Headgates and outlets constructed of concrete, height of water in pond controlled by removable flash boards. Total costs P.W.A. Material and labor \$221.49. (Completed under P.W.A. Project GP 365-92-2-6)

Description of ponds constructed has been taken up as the work was accomplished rather than listing them in consecutive order. A detailed map indicating the exact locations of the ponds and buildings is being prepared in this office and will be forwarded in the near future.

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REPAIRS & IMPROVEMENTS TO HAGERMAN STATION P.W.A. & W.P.A.

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P.W.A.	O.P.	752-02-89	:	W.P.A.	O.P.	702-2-23
PWA				NPA		

Repairs & Improvements	Material	Labor	Total	Labor Only	Expenditures
House	2167.00	2100.00	4267.00	500.00	4767.00
Hatchery cooling system	310.00	393.50	703.50	400.00	1103.50
Pond North of Hatchery	550.00	635.00	1215.00	200.00	1415.00
Fonds at Lake Outlet	450.00	817.00	1267.00	700.00	1967.00
Painting	275.50	509.75	785.25	372.00	1157.25
Repairs to Power House	125.00	230.00	375.00	50.00	425.00
New Road & Bridge	321.00	75.00	396.00	2000.00	2396.00
Pond NO. 2 - Riley Creek	175.00	300.00	475.00	400.00	875.00
Excavating Pond site front of Hatchery				375.00	375.00
Flag Pole & Base	10.00	27.00	37.00		37.00
Garage Doors	50.00	30.00	80.00		80.00
Wiring grounds & buildings	27.00	102.75	129.75		129.75
Lake Pond No. 1	171.49	50.00	221.49		221.49
	4631.99	5290.00	9921.99	5000.00	14,921.99

Total cost material	4631.99	Total cost material & labor P.W.A.	9921.99
Total cost labor	5290.00	Total cost labor only W.P.A.	5000.00
	9921.99		14,921.99
Plus bal. on hand	78.01	Plus balance on hand P.W.A.	78.01
Total allotment	10,000.00	Total allotment P.W.A. & W.P.A.	15,000.00

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Hagerman, Idaho

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P.W.A.

1	9.00	Plasterer	84.00
1	6.00	Painter	315.75
7	6.00	Carpenters	2836.25
10	4.00	Laborers	<u>2054.00</u>
			5290.00

W.P.A.

1	per hr. .61	Foreman	282.15
1	.55	Carpenter	159.50
1	.55	Blacksmith	239.25
1	.55	Timekeeper	95.70
4	.45	Journeyman	252.00
1	.45	Rock Mason	193.50
1	.36	Typist	18.90
29	.40	Laborers	<u>3759.00</u>
			5000.00

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Department of Water Resources
Southern Region Office

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ANNUAL REPORT, HAGERMAN, IDAHO STATION,

FISCAL YEAR, 1936.

Fish cultural operations were conducted during the year by the regular station personnel, except assistance obtained at times through Relief Agencies of this locality. There was no temporary labor employed, chargeable to the station allotment.

The only change in station personnel was the transferring of the apprentice fish culturist to the Cortland, N.Y. station. This position was filled through the transfer of an Apprentice from the Saratoga station.

There was no sick leave taken by permanent employees of the station. Two of the employees did not take any annual leave and the other two only a portion thereof.

A half ton pickup type Ford truck was purchased during the year. Three used trucks were transferred to the station from the U. S. Coast and Geodetic Survey. One of these trucks was transferred to the Seattle Office.

Vessels-

Small boats were kept in repair and repainted.

Ponds-

Screens and other minor repairs were made to ponds in order to keep them in operation. No extensive improvements were attempted with the regular station allotment.

IERA labor was available for general use at the station during July, through October, 1935. The total amount expended amounted to \$761.30. Arrangements were made with the Commissioners of Gooding County to pay the insurance premium for compensation in case of accident. These men were employed in making general improvements to the station.

A, WPA Project, sponsored by the Idaho Department of Fish and Game was approved during late November, 1935 for the general improvement of the station. This project called for the enlarging and improving of the Hagerman station, including buildings, ponds etc. The total amount is \$23,050.00. \$4,480.00 of this amount is to be furnished by the Bureau for supervision and use of trucks, tractors cement mixer and sand and gravel for concrete. A detailed report of progress on this project is described in this report under construction and repairs.

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Review of Construction and Repairs-
Review of Construction and Repairs-

On August 1, 1935, Mr. Claud C. Drake, Commissioner, Idaho Department of Fish and Game, sponsored a WPA Project for the rebuilding and improving of the station, including buildings, for the state and improving the station, including buildings, for the state. Federal funds requested for this project amounted to \$10,000.00, sponsor's contribution, which is the Bureau share amounted to \$4,480.00, this includes supervision by station personnel, the use of station trucks, tractor and cement mixer and sand and gravel for cement work which is available on the station grounds.

This project was approved on November 27, 1935 and on the 29th, the work was started. Since that date there has been from 10 to 40 men working. Material furnished for work on this project has amounted to nearly \$5,000.00. The following material has been furnished: 3,120 100 lb. bags of Portland cement, 1,500 lbs of construction steel, approximately 20,000 feet B M of lumber 12- 25 lb. boxes of blasting powder, 12 kegs of nails and other necessary tools and equipment for carrying on this work.

During the winter months when weather would not permit the pouring of cement for ponds, a considerable amount of work was accomplished on the half mile of road leading from the County road to the station. About one half of this distance was hill road, steep and narrow. The entire length of road was widened graded and graveled. The hill part has had a drainage ditch dug on the upper side and a rock wall about two feet high layed up in the lower side.

The rebuilding and improving of ponds was begun during the early spring and was given preference over other work coming under this project. Work accomplished has been of permanent construction. All footings walls and floors of reinforced concrete set on solid foundation. Footings are not less than 1 foot thick and the floors and walls not less than 6 inches thick.

Beginning at the upper end of Riley Creek, dimensions of ponds rebuilt are as follows:

Pond No. 1- 34 feet wide, 78 feet long, 3 feet deep, enlarged and rebuilt.

Pond No. 2- 28 feet wide, 34 feet long 3 feet deep, enlarged and rebuilt.

Pond No. 3- not finished, cement, steel, sand and gravel on hand for rebuilding.

Pond No. 4- 62 feet wide, 75 feet long, 2 1/2 feet deep, excavated and rebuilt.

Pond No. 5- 27 feet wide 68 feet long, 3 feet deep, excavated and rebuilt.

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Review of Construction and Repairs, Continued-

Pond No. 6- 80 feet wide, 155 feet long 4 feet deep, rebuilt.

The ponds listed above have perpendicular walls constructed of concrete. They are constructed in natural stream beds and the water supply is springs that feed into the Pond through spaces in the upper end of the walls. The outlets are floored with concrete, piers are set on the floors with grooves installed for screens to retain the fish and flash boards to control the height of water. These ponds are built so at least 18 inches in depth of water can be had at the highest point in the floor of the pond in order to protect the fish from herons which have done so much damage to young fish in shallow ponds at this station.

Excavation work has been completed for the construction of a dam in Lake Creek below the dam that raises the water for the lake at the headwaters of this stream. This dam when completed will be 75 feet long. The piers will be 9 feet above the floor, constructed with grooves for flash boards to regulate the height of water. The pond above this dam will be approximately 75 feet wide and 325 feet long. It is the intention to set this pond aside for the holding of brood fish.

Sand and gravel has been transported to location and cement and other material is on hand for its construction.

Buildings-

The building used for station office was moved and set on a concrete foundation early this past spring. An addition 8' X 10' was built on and is partitioned off for a storeroom on one side and a wash room on the other. The entire building was given 2 coats of paint inside and outside and new floors laid throughout.

A sleeping porch 12' x 16' was built on the quarters occupied by the fish culturist. This porch is single board construction and screened.

Grounds-

Minor improvements were made to station grounds when there was a surplus of labor through the WPA.

The records indicate that funds of this project have been about 60% expended. The sponsors share has been worked out in the amount of \$6469.71, which is considerable more than requested.

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Fish Cultural Operations-

Fish Cultural operations were conducted, during the year, according to the usual methods. The work was done principally by the station personnel, although some assistance was obtained from time to time through the IERA and National Youth Administration.

According to the station records, stock was on hand at the Hagerman station on July 1, 1935, as follows:

Rainbow trout, adults,	2,500
Rainbow trout, fingerling,	250,000
Rainbow trout fry,	397,000
Blackspotted trout, fingerling,	46,000
Brook trout, fry,	57,000
Loch Leven trout, fingerling,	202,000
Total,	954,500

There were 400,000 blackspotted trout eggs received from Yellowstone Park during July, 1935. These eggs were received in two shipments.

All of the fish listed above, including those raised from the blackspotted trout eggs, listed above, except about 7,000 that are being retained for brood stock, were planted during the year. The distribution of fish, aside from those liberated in the immediate vicinity of the station, was made by the Idaho State Game Department with their tank truck. The larger percentage of these fish were from 3" to 6" long when liberated. The entire output were released in the Snake River and its tributaries within a radius of 250 miles of the station. The Nevada Fish Commission transported with a tank truck of their Department, 24,000 rainbow and 12,000 eastern brook trout from the Hagerman station to the Humboldt National Forest, Nevada. These fish were transported in three trips. The streams stocked are within the Snake River watershed.

During the winter of 1935-36, 350,000 fall rainbow trout eggs were received from the Springville station. 378,000 rainbow trout eggs were collected from brood stock held at this station. The loss between between the eyed stage of the eggs and the time the fry reached the feeding stage amounted to more than 50%. This loss was due to premature hatching of the eggs and the bursting of the yolk sac of the fry. After the fish reached the feeding stage the loss dropped to normal proportions and the remaining fish appear to grow as fast as those resulting from wild eggs.

272,000 loch leven trout eggs were received from the Bogeman station in December. These fish are being reared for planting at the Hagerman station, except a consignment of 100,000 eggs that were transferred to the state hatchery at Twin Falls. 100,000 eastern brook trout eggs were received from the State hatchery at Ashton in December, 1935.

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Fish Cultural Operations, continued-

102,000 eastern brook trout eggs were also received from the Creede Colorado station during March. These ~~fish~~ have reached the feeding stage, the loss throughout the hatching of the eggs and on the fish to date has been normal.

During May and June, 600,000 rainbow trout eggs were transferred from the eyeing station at Williams Lake, Salmon station to Hagerman. These eggs and the resulting fry have shown a very low percentage of loss. 100,000 of these eggs were shipped to the state of Nevada.

The largest item of expense in connection with the operation of the Hagerman station during the year was that for fish food. The total cost for the year amounted to \$2,269.50. This represents 78,146 lbs. of fresh meats and 9,850 lbs. of dried meals. A total of 88,996 lbs. From experiments conducted at the Hagerman station in the feeding of seal and salmon meal with fresh meat, it is believed that good results can be obtained when meal is fed in the amount of 30 percent. A detailed statement showing the amount of different meats and meals fed appears elsewhere in this report.

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OUTPUT OF HAGERMAN, IDAHO STATION.

(SALMONIDAE)

Eggs taken from station brood stock,	878,000
Eggs received from Salmon, Idaho, Williams Lake,	600,000
Fish on hand July 1, 1935,	954,500
Total,	<u>2,432,500</u>

Eggs distributed during the year,	491,880
Fingerling distributed during the year,	<u>1,182,785</u>
Total,	<u>1,674,665</u>

Number of eggs on hand July 1, 1935,	None.
Number of fingerling on hand July 1, 1936,	884,660

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PARTMENT OF COMMERCE
BUREAU OF FISHERIES
590 e

Statement Showing the Output of Fish and Eggs During the Calendar Year **1935**

Species Common Name	Eggs		Fry		Fingerlings, Yearlings, etc.	
	Number Distributed	Number Planted	Number Distributed	Number Planted	Number Distributed	Number Planted
Blackspotted Trout					20,000	
Brook Trout					73,985	
Loch Leven					52,000	
Rainbow Trout	239,000				686,600	900
Steelhead Trout						
Totals	239,000				837,585	900

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DEPARTMENT OF COMMERCE
BUREAU OF FISHERIES
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Statement of Fish and Eggs Handled During the Year

Species		Eggs		Fry	
Common Name	Scientific Name	Collected	Received by Transfer or Purchase	Number Hatched	Per Cent Hatched
Blackspotted Trout	<i>Salmo levis</i>		(1) 400,000	332,000	.99
Brook Trout	<i>Salvelinus fontinalis</i>		(1) 249,500	160,500	.645
Loch Leven Trout	<i>Salmo levenensis</i>	Shipped	(1) 272,000 (100,000)	136,000	.79
Rainbow Trout	<i>Salmo irideus</i>	(2) 576,000 Shipped 262,000 Loss char Sept 25 to 28. 446,000 shipped 136,000	(2) 360,000 (1) 600,000 (100,000)	186,460 284,000 432,000 324,460	.416 .81 .924
Totals		878,000	1,671,500	1,620,960	

Indicate by foot notes-

1. Eggs from wild fish
2. Eggs from brood stock
3. Eggs by transfer
4. Eggs by purchase

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RECORD OF DISTRIBUTION (SALMONIDÆ)

SPECIES	No. of Eggs	No. of Fry	NUMBER OF FINGERLINGS				TOTALS	ON HAND AT END OF YEAR
			No. 1	No. 2	No. 3	No. 4		
Atlantic Salmon	100,000	100,000	327,400	23,000	23,000	23,000	371,700	4,000
Brook Trout	100,000	100,000	22,000	22,000	22,000	22,000	88,000	69,740
Loch Leven Trout	100,000	100,000	52,000	52,000	52,000	52,000	208,000	61,800
Rainbow Trout	391,880	391,880	221,000	85,000	83,000	163,000 #5 110,100 #6 38,000 #7	700,100	740,080
TOTALS	491,880		622,400	255,000	475,395		1,162,795	884,660

Figures must agree with reports of distribution previously submitted

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STATEMENT OF FISH AND EGGS DISTRIBUTED
DURING FISCAL YEAR, 1936

Species	Number	Age
Blackspotted trout	327,400	Fingerling No. 3
	21,000	No. 4
	23,300	No. 6
Eastern Brook trout	22,000	Fingerling No. 3
	35,985	No. 5
Loch Leven trout	100,000	Eyed Eggs
	52,000	Fingerling No. 3
Rainbow trout	391,880	Eyed Eggs
	85,000	Fingerling No. 2
	221,000	No. 3
	83,000	No. 4
	165,000	No. 5
	110,100	No. 6
	38,000	No. 7

1,674,985

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Distribution by States

States in which distributed	Species	Size		
		Eggs	Fry	Fingerlings, Yearlings, etc.
Nevada	Brook Trout			12,000 #3
Nevada	Rainbow Trout	100,000		24,000 #3
Washington	"	150,880		

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REPORT OF DISTRIBUTION BY STATION MESSENGERS

Number of
trips

Total number of
species carried

Miles traveled

Total cost of
distribution

No fish distributed by station messenger during the year.

Distribution by fish cars is not to be considered. If a car messenger is detailed to a station to aid in the distribution he must be considered as a station employee but if a car man is sent to the station to receive fish for the fish car, the fish to be distributed under the orders of the car captain no record is to be kept.

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Stations Operated During Year

Name of Station	Period of Operation	Species Handled
Hagerman station	Entire Year	Rainbow, Blackspotted Eastern Brook and Loch Leven Trout

Give all sub stations and egg collecting fields

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Cost of Fish and Fish Eggs Per Thousand

Species	Cost of Eggs Per 1,000		Cost of Fish Per 1,000	
	Green	Eyed	Fry	Fingerlings
Blackspotted Trout	Wild Stock Rec'd through Trans.	.034	.06	\$1.50
Brook Trout				
Wild Stock Rec'd through transfer		.037	.05	1.10
Loch Leven Trout				
Wild Stock Rec'd through transfer		.05	.05	1.45
Rainbow Trout				
Station brood stock	.15	.05	.09	1.40
Rainbow Trout				
Wild stock Rec'd through transfer		.15	.06	1.50

Indicate by footnotes: Eggs from wild stock; eggs from brood stock; eggs purchased; eggs received by transfer.

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Statement of Fish Food Used During the Year

Kind of Food Month	Layer		Lunze		Alpen		Horse flesh		Twine		Totals
	Cost per Pound	Amount Used	Cost per Pound	Amount Used	Cost per Pound	Amount Used	Cost per Pound	Amount Used	Cost per Pound	Amount Used	
July ---	7¢	425	1¢	2160			3¢	3023			\$109.04
Aug. ---	7¢	890	1¢	1770	.0375	1967	3¢	3019	1¢	1661	7¢ 155¢
Sept. --	7¢	437	1¢	1120	.0375	639	3¢	9440	1¢	1278	162.95
Oct. ---	7¢	571	1¢	1836	.0375	1136	3¢	3075	1¢	1200	229.17
Nov. ---	7¢	1061	1¢	1280			3¢	1150	1¢	1610	197.86
Dec. ---	7¢	167	1¢	990			3¢	2310	1¢	915	102.04
Jan. ---	7¢	853	1¢	1106	.0375	1062	3¢	1280	1¢	821	113.92
Feb. ---	7¢	209	1¢	1045			3¢	1520	1¢	1860	83.48
Mar. ---	7¢	490	1¢	1420	.0375	937	3¢	2000	1¢	1300	175.79
Apr. ---	7¢	431	1¢	1470			3¢	5253	1¢	1426	216.46
May ----	7¢	682	1¢	1470			3¢	4136	1¢	1390	190.78
June ---	7¢	636	1¢	1170	.0375	2025	3¢	2125	1¢	1625	187.50
Totals,		5,911		16,104		8,104		32,848		14,613	565 \$2018.60

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SECRET - EYES ONLY

(All that was charged to the Department Allocation was freight charges;
25,000 lbs charges \$222.48
Seal Noal 300 lbs charges 4.10)
ulicene noal

JAN 25 1993

Record of Egg Shipments.

Species	Number Shipped	Name and Address of Applicant	Date of Shipment	Method of Packing	Number of Trays	Condition of eggs on Arrival
Rainbow trout	48,000	Snake River Trout Co. Buhl, Idaho	Dec. 31, 1935	Trays	4,000	No. per oz. good, 260 per oz.
	50,000		Jan. 7, 1936	Trays	5,000	good, 260 per oz.
	50,000	U. S. Bureau of Fish. Birdsview, Wash.	Jan. 17, 1936	Trays	3,000	good, 260 per oz.
	64,480	U. S. Bureau of Fish. Quinsault, Wash.	Jan. 20, 1936	Trays	3,150	fair, 260 per oz.
	36,400	U. S. Bureau of Fisheries, Quilcene, Wash.	Jan. 23, 1936	Trays	3,000	fair 260 per oz.
	45,000	Snake River Trout Co. Buhl, Idaho	Jan. 24, 1936	Trays	3,600	good, 260 per oz.
	100,000	Nevada Game Comm. Reno, Nevada	June 5, 1936	Trays	4,000	No report 240 per oz.
	100,000	Idaho Fish and Game Department, Twin Falls, Idaho	Jan. 1, 1936	Trays	4,000	good, 260 per oz.
Leach Leven Trout						

1 Tray or bulk method 2- Carry this statement at the bottom of the sheet if there is not sufficient in the column for complete details.

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RECORD OF "FOREIGN" EGG SHIPMENTS RECEIVED AT THE STATION

SPECIES	RECEIVED FROM	NUMBER	NUMBER HATCHED	FINAL DISPOSITION OF EGG OR FINGERLINGS	
				Reserved for brood stock	Distributed in public waters. Give numbers of fish and name of waters stocked
Blackspotted Trout	U. S. Fisheries Sta. Yellowstone Park	400,000	302,000		271,700. Snake River & Trib.
Brook Trout	Ashton State Hatchery	147,500	67,500		10,000 S.F. Boise River
	U.S. Fisheries Sta. Leadville, Colo.	102,000	93,000		On hand at station
Loch Leven Trout	U. S. Fisheries Sta. Bozeman, Mont.	292,000	136,000		On hand at station
	(100,000 transferred to State Fish Hatchery Trin Falls, Idaho)				
Rainbow Trout	U. S. Fisheries Sta. Springville, Utah	360,000	284,000		On hand at Station

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STATEMENT OF FISH AND EGGS RECEIVED FROM
OTHER SOURCES DURING THE FISCAL YEAR, 1936.

Species	Number	State if green or eyed eggs, or exact size of fish.	Station or source from which received.
Rainbow trout	600,000	eyed eggs	Salmon station, Williams Lake Hyeing station.

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Spawning Season, Character of Eggs, Incubation Period, Etc.

Species	Spawning Season	Chara- cter of Eggs	Average Number per Fish	Number per Ounce	Maximum Eggs		Incubation Period		Fry
					Number of eggs	Weight of Fish	Eye Spots	Incubation Completed	
Rainbow Trout	Dec. 16, 1933 to Feb. 10/33	Fair	850	340	2,200	3 lb.	12 days at 59 degrees	27 days 53 degrees	12 days Yolk Sac Temp. 58 degrees Absorbed

Give time in days with mean water temperatures

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Report on Station Personnel

Name of Employee	Desire Regarding Transfer	Married or Single	Number of Dependents
J. R. Russell, Supt.	None desired without promotion.	Married	Three
Van A. Heffner, Foreman	" " " "	Married	One
J. R. Chipman, Fish Cult.	" " " "	Married	Three
H. C. Ehrenhelm, App. Fish Culturist,	" " " "	Married	One.

Give preference as to station or stations

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Record of Station Brood Stock
(Salmonidae)

Species	Female Fish			Number of Males	Cost of Food	Cost of Green eggs per M	Number of eggs cyed	Number of cyed eggs shipped
	Two year olds	Three year olds	Over three years					
Rainbow Trout		1,000		1,300	120.00	.136	500,000	222,000

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REPORT OF EXPENDITURES FOR TEMPORARY LABOR, HAGERMAN STATION FOR FISCAL YEAR, 1955.

NO TEMPORARY LABOR EMPLOYED DURING YEAR.

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STATEMENT OF SALARIES PAID REGULAR EMPLOYEES

Base Salary of Superintendent,	\$2600.00	
Base Salary of Foreman,	1740.00	
Base Salary of Fish Culturist,	1320.00	
Base Salary of Apprentice Fish Culturist,	1200.00	
Base Salary of Apprentice Fish Culturist,	1630.00	1090
Total,	\$7,490.00	

One apprentice transferred to Cortland, N.Y.
effective August 1, 1935. Apprentice transferred from
Saratoga, Wyoming station effective December 1, 1935.

Total Salaries for July, 1935,	\$561.66
Total Salaries for remainder fiscal year,	\$6918.34
Total,	\$7,490.00

TOTAL ADMINISTRATIVE DEDUCTIONS.

Total deductions for quarters,	\$419.92
Total deductions for retirement,	223.51
Total Deductions,	\$643.43
Net Salaries Paid,	\$6,846.47

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RECOMMENDATIONS

One new cottage of five rooms for living quarters, apprentice fish culturist,

Governor, control on nozzle of water wheel that operates generators to furnish electricity for station use.

One electric generator of 18 k w capacity.

Tank of approximately 500 gallon capacity equipped with compartments and gas engine, centrifugal pump and necessary piping for circulation of water. Tank and engine constructed so that it can be mounted on truck for distributing fish.

COOPERATION

The Idaho Department of Fish and Game cooperate with the Bureau to the fullest extent. Sportsmen and the general public are favorable to the work and offer assistance in the planting of fish.

Public Sentiment

Public sentiment favorable, local people interested in work and claim fishing has improved since hatchery in operation.

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RECEIVED

Summary report of Federal Civil Works Project F42.

OCT 16 1992

Hagerman, Idaho, Fisheries Station.

Department of Water Resources
Southern Region Office

- (1) Name of Project: Federal Civil Works Administration, Project F 42, Hagerman, Idaho. Bureau in charge, Bureau of Fisheries, supervisors in charge, J.R. Russell, Supt; Van A. Heffner, Foreman. Geographic area covered, U.S. Fisheries reservation located in Gooding County, Idaho, near the town of Hagerman.
- (2) Brief description of need of project: The original appropriation for the establishment and construction of the station would only permit the purchase of the site and the construction and equipping of the hatchery and other buildings. The hatchery was constructed of sufficient capacity to raise fish of a limited size for stocking the waters in this territory. In order to raise fish to a larger size as desired by the public in this section, it was essential to have constructed rearing ponds, for holding and feeding young fish until they reached the proper size for liberating. It was also important that improvements be made to the building used for housing power machinery so that the proper equipment could be installed for preparing fish food in large quantities. Repairs were also necessary to the pipe line furnishing water to operate the power plant at the station. Improvements were also needed

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on the road leading to the station.

Statement of the accomplishments achieved: two ponds were completed practically doubling the capacity of the station for feeding fish. The power house was improved to the extent of making sufficient space for power machinery for furnishing electric power and lights for station use, operation machinery for preparing fish food and space for a small refrigerating plant. Road was widened and graded on the hill making it safer than before. Grounds were cleared and leveled, improving the general appearance.

Work accomplished: Ponds: Two ponds were constructed in natural waterways the area of these two ponds amounts to approximately 28,000 sq. ft., and as stated above practically doubles the amount of capacity of the station for feeding fish. In order to construct these ponds it was necessary to remove about 75 cu. yards of dirt, rock, and gravel, and to screen and transport to pond sites 100 cu. yards of sand and gravel for concrete work. Approximately 125 cu. yards of concrete was used in this work, and 2,500 lineal feet of reinforcing steel. Dam-boards and screens have also been made and fitted into the pond openings for holding fish and controlling the depth of water in these ponds.

Power House: The building used for housing power machinery was enlarged and completely rebuilt. When the old building was torn down all usable material was salvaged and used for rebuilding. In order to install the

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JAN 25 1982

water wheel at the proper level it was necessary to construct the basement of this building approximately six feet below the ground level. The size of the basement of this building is 28'x 30'. The floors, walls, and machinery foundations were built of reinforced concrete. The upper structure of wood frame covered with corrugated iron. This building accommodates the small hydro-electric plant for generating electricity for the station, the machinery necessary for preparing fish food, and space for the installation of a small cold storage plant. A small concrete reservoir was built at the head of the pipe line that furnishes water for power to this plant. 150 feet of new 10" diameter wood stave pipe was also replaced at the upper end of this line.

Road: Considerable work was done on the road leading from the county road to the station, a distance of approximately $3/8$ of a mile. This work consisted of widening which required the blasting of rock at some points, draining, grading, and graveling. While the grade is still steep in places and has some sharp curves it is much improved and safer than heretofore.

Improvements to grounds: Considerable was accomplished in the clearing and leveling of station grounds. The work was done where most needed along the shores of the streams and adjacent to the buildings.

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Human Interest: Employment on this project was limited entirely to local help, who were personally interested in these improvements. The community as a whole as well as Sportmens Organisations, in Gooding and adjoining Counties also indorse this work, realizing the additional space for feeding fish made possible by C.W.A. work will permit the liberation of fish of a larger size than heretofore and assure good fishing for the future.

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