



UNITED STATES
DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
BUREAU OF SPORT FISHERIES AND WILDLIFE
WASHINGTON, D.C. 20240

ADDRESS ONLY THE DIRECTOR,
BUREAU OF SPORT FISHERIES
AND WILDLIFE

April 30, 1969

RECEIVED

MAY 5 1969

FISHERIES DIVISION

Mr. William Alvord
Superintendent of Fisheries
State of Montana
Department of Fish and Game
Helena, Montana 59601

Dear Bill:

I find myself very interested in your proposal to write a history of fish culture in Montana. A comprehensive review of activities in this field would create a worthwhile record.

The subject of history of fish culture is also undergoing active research in our Bureau just now. As you probably know, the American Fisheries Society is compiling a book on a century of American Fisheries. The chapter on the history of fish culture is being written in my office. I do not know how much if any mention will be made of Montana, but in the course of this work we will keep an eye out for material that you can use.

There are a few people still around whose working experience in Montana goes back a few years. One such person is Lloyd T. Pullam, now living in Saratoga, Wyoming. Lloyd is a retired Federal fish hatchery manager who worked at a spawn-taking station on the Madison some 40 years ago. Earl Bennetts, Billy Baker's brother-in-law, told me once that Pullam was largely responsible for introducing brown trout into the Madison. You might wish to contact Jack Larmoyeux and review the station logs at Bozeman. He should have a complete set of daily logs that date back to the establishment of the station. And of course there are the bulletins and annual reports of the U. S. Fish Commission. I believe the M. S. U. library has a full set of these.

In looking through our Bozeman historical file I ran across the enclosed reports that you might find interesting at least, and perhaps even useful.

Good luck in your endeavor.

Sincerely,

Harvey Willoughby
Harvey Willoughby
Chief, Division of Fish Hatcheries

Enclosures

STATE OF MONTANA
DEPARTMENT OF FISH AND GAME
HELENA, MONTANA

RECEIVED
MAR 29 1967
FISHERIES DIVISION

Office Memorandum

TO : Frank Dunkle Attn: Bill Alvord DATE: March 27, 1967
FROM : LeRoy Ellig By: Joe Egan
SUBJECT: Brook Trout.

The Mr. Evans from near Ennis, who stopped by the office on March 23, 1967 was making inquiry about when the first brook trout were planted around Ennis. You recall I phoned you about this in Bud Gaffney's absence. Mr. Evans left this bit of information:

Sometime between 1900-1910 people from the Jeffer's Ranch, Evan's Ranch and Smith Ranch went to Sappington and from a Northern Pacific Railway tank car got Brook trout.

These fish were planted in the small tributary streams of the Madison River near Ennis. None of the fish were planted in the Madison proper. One of the streams, on the Evan's ranch, where the brook trout were planted was Warm Springs Creek, a tributary to Jack Creek which runs into the Madison.

Mr. Evan's says there are still brook trout in Warm Springs Creek.

JLE:pae

cc: J. Gaffney

Reported by Selby's July 15, 1971

Came to Centennial Valley in 1928

Jim Blair was an old-timer in the valley when they arrived but still did some guiding for friends. Blair came to the valley in 1875 and set up small hatchery some time in the 1880's. His source of eggs was unknown but apparently he was able to obtain rainbow somewhere. He reportedly planted Hidden Lake with rb also other waters in the valley. Hidden Lake still maintains a population of rb and is not stocked. The fish were reported to grow to a large size, 12-18 lb.

Ct were planted in Elk L. and were originally transported by pack string by Faye Selby in 1933 - the pack string would meet the fish truck at Cliff L. - Neely's

Selbys also reported that Elk Lake originally contained only grayling and lake trout - this information came on down from the earliest settlers in the area.

Refuge may possibly have records relative to the old hatchery.

Helena, Montana
March 30, 1970

Mr. Faye Selby
Monida
Montana 59744

Dear Faye:

I recall, a number of years ago, talking to you up at the lodge about some of the early day stocking, rearing, and transfer of fish in the Centennial Valley area. I am in the process of gathering up information on fish culture in Montana and hope to get it written up one of these days.

I would appreciate information on any of the dates, people, and places associated with fish culture that you might remember. I hope I'm not asking for too much, because as I remember, there was a lot of history in that part of the country.

Sincerely,

WILLIAM ALVORD
SUPERINTENDENT OF FISHERIES

WA/eb

1895-96 Numerous letters to Mr. C. Von Bayer, Arch & Civil Engr
Wash. D.C. from Juan J. Jimenez on construction at
hatchery.

Boz
1911

- Boating Stations maintained in YNP - Thumb, Lake
and Cub Creeks.

Reported that originally only 3 species were native to
YNP - Blackspotted trout, whitefish and grayling. Now,
1911, catching lake trout, rainbow, brook trout and
Lock Leven trout.

Landlocked salmon were introduced into Yellowstone
and Duck Lakes but never became established.

Largemouth bass were planted in lakes of the Firehole
Basin but were never heard of.

Bears created consid problems at traps and stations.
Ate fish in the traps, ruined stations and camps.

Arrangements were made with Mr. James Blair who operated
the Blair Ranch to collect wild rainbow eggs at the
Red Rock Substation. The results were very poor. Did
take grayling eggs there.

Boz supt felt that the stock of rainbow and
steelhead were mixed at the Sta. as they
couldn't tell the difference. Steelhead were doing
well in the lake formed by the dam of the
Madison River Power Co., up to 12 lb.

By mid July eggs taken at YNP were swamping the
park setup 21,500,000. Sending out green eggs.

1912 - Shipped horses and equip. for work in YNP by rail from Boz. to Gardiner - 6/10/12, 3, 4-horse teams and freight wagons - much cold, rain and snow getting into sites. June-July 29,320,500 Blackspotted eggs. James Blair at Red Rock Sue station.

1913 - Bue. investigating fish cultural possibilities in the Madison Valley - Ennis on O'Beal Cr. for grayling and McAllister on S. Meadow Cr. for grayling and rainbow. Boz. received 50,000 eyed lake trout eggs from Duluth. Recommended investigating hybrid crosses sb x cb - lb x golden.

1914 - Lights run of cb in YNP - 7,446,060.

Grayling operations at Red Rock were abandoned due to shortage of funds.

Boz. received 500,000 brook eggs from Leadville, Colo. State received lake trout from Boz. - to be planted in large lakes of NE monts.

Boz. received 25,000 Landlocked Salmon from Maine, hatched 18,000.

1915 - Boz. received 200,000 brook eggs from Lehighton, Pa.

1916 - Recommended expanding operations in the Parks, Yellowstone and Glacier. Newly created Helge Dam to provide good fishing.

1918 - Put up a hatchery building at McAllister and to start a building in Glacier Park.

During August 1915 lg. nos. of cans of blackspotted trout, rainbow and brook trout were delivered to the railway distribution cars for shipment - to Oregon Short Line R.R., Salt Lake, Spokane, Idaho. Also fish to Panama, Pacific Expo.

9/15/15 - 42,000 blackspotted adv. fry and 30,000 rainbow fingerlings #1 and 21,250 brook trout #2 sent to Glacier Park Waters.

9/20/15 - 6000 #1 Steelhead loaded for Pomeroy.

10/14/15 - 26 cans #2 1/2 brook loaded for Oregon Short Line R.R. - to be planted by Butte Anglers Club.

10/15/15 Work on ice pond - 15 cans brook for Bog. Anglers Club for Gallatin Valley.

10/30/15 10 cans brook for Salesville.

11/6/15 20 cans brook for Deer Lodge.

11/7/15 7 cans black spotted and 5 cans adult rainbow for Calif.

11/15/15 into Dec. - spawned brood brook trout at Sta.

11/26/15 26 cans brook for Red Lodge.

1/15/16 Putting up ice - 30".

1/12/16 50,000 brook eggs to Somers.

3/17 - 4/7/16 Took steelhead eggs.

4/15/16 Bog. received steelhead eggs from Clackamas, Ore.

5/15/16 Sent 8 cans grayling to Preston, Idaho.

- 5/19/16 26 cans trout for Supr. of Blackfoot Agency.
- 8/1/16 Shipment of grayling to YNP
- 8/8/16 " 24 cans brook trout to Arlee.
- 9/4/16 81 cans brook trout @ 200/can and 36 cans rainbow @ 1000/can loaded for Glacier Park.
- 5/17/17 Shipped 25 cans lake trout to Whitefish on #3.
- 6/5/17 Shipped rt eggs to Wyo. Fish Comm. & Leadville, Colo. — mostly recurve eggs from Leadville.
- 8/24/17 Shipped 15 cans brook trout and 10 cans rainbow to H.A. Noble, Gen Mgr., Glacier Park Hotel Co.
- 10/16/17 15 cans brook for Meadow Cr.
- 10/24/17 20 cans brook for Madison Valley Waters.
- 11/11/17 24 cans brook to Ore. Short Line in interest of the railroad. additional fish 11/30/17.
- 11/19/18 Recd brook eggs from Hossicker - Creede, Colo.
- 3/21/18 Took ^{16,800} rt eggs from brook, also ^{37,000} steelhead
- 5/15/18 Shipped 150,000 eggs to Anaconda.
- 6/4-9/18 Discussed plans for Glacier Park Hatchery.
- 6/15/18 Recd cs of black spotted eggs from SS New - exchg. for 50,000 rt ^{eggs}
- 6/29/18 Shipped 50,000 rt eggs to Kingston, Mass.
- 5/23/19 New Republic truck at Sta.
- 6/10/19 Rt eggs to Rogue Riv. Sta & Maryland Fish Comm
- 9/15/19 130 cans brook #3 @ 200/can to USBR at Willow Cr. & Fishkum
- 5/20/20 Packing rt eggs for Honolulu - Wytheville
- 6/24/20 40 cans brook @ 300/can to Ranger Nee of For Serv. for Bogerman Bear, Middle Creek, Cottonwood Creek.
- 12/8/20 Recd 2 cs. brook eggs from Springview.

Burdsnow Wisc.

- 10/6/21 Supt. met with Supt. Mont. Fish. to arrange joint operation at St. Marys L.
- 1/8/22 Recd 2 cs eggs from Plymouth, Mass.
- 4/19/22 Fuqua started work at Boz.
- 6/15/22 Anaconda swamped with black spotted eggs from Georgetown L. Boz. took several million.
- 7/7/22 Planted Leadville brook in Budget Cr. also Townsend area
- 7/14/22 Shipped eggs to Honolulu.
- 7/28/22 20 cans calfish & 5 cans bass recd - to hold for Dr. Faus and Pocahontas trip.
- 1/5/23 Recd brook eggs from Crystal Springs.
- 1/22/23 Recd 2cs brook eggs from Leadville, Colo.
- 6/8/23 State completed receiving ponds at Emigrant.
- 6/14/23 25000 each, Ab and native eggs for Honolulu. 25000 Ab for Rocky mt. Park, Colo.
- 6/22/23 24000 #1/2 brook fry. for Pine Cr. & Eight mile Cr. - Ranger N
- 8/14/23 24 cans steelhead to Meadow Cr. headwaters.
- 9/25/23 20 cans lake trout for Columbus.
- 11/30/23 Sent 2cs. LT eggs to Spearfish. White Sulphur Springs, W. Va.

1921 - YNP - Lake hatchery, Thumb, Clear Cr., Cut Cr., Columbine

1925 - Meadow Cr field - 11,750,840 LT eggs.

State gave Bur. 6,249,000 grayling eggs.

State & Bur. exchanged ct eggs due to time difference at Yellowstone and Georgetown L. - Itown 1 mo. earlier.
Reference was made to a commercial fishery for wt.

Trout were very abundant in Georgetown L.

1925 Boz. exchanged TL eggs with Leadville & Springville for brook tr.
March 1925 - Boz. rec'd 9875 Landlocked Salmon eggs from Craig Brook, Minn.
Reported the grayling run which started in 1915 in Meadow Cr. had ceased in 1917. Attributed to aggressiveness of sb.
Grayling caught in Meadow L. but not Meadow Cr.
Lava L. reported stocked with eyed sb eggs in 1916 & 1917 -
Mystic L. with 6000 $\pm$ Rb 8/10/1912. 6 to 8[#] sb taken, all sizes seen Mont. Power Co. building an elec. plant at Mystic L.
Predicted TL would become an important factor in fish cultural economy of the state.

1923 - 25000 black spotted eggs and 25000 sb eggs to Honolulu.

1924 - 1/27/24 Rec'd lake trout eggs from Charlevoix.

5/22/24 20 cans TL for Hauser L.

5/23/24 20 cans brook trout for Red Lodge.

5/30/24 Big meeting with Comic sportsmen who wanted the sb - cb - grayling returned to the Madison in old time abundance.

6/5/24 Rec'd 3 million grayling eggs from Mont.

Brunson resigned as mont. Supt. of Fish.

6/29/24 20 cans brook trout for For. Serv. at Red Lodge.

8/21/24 Survey of Madison lakes - reporting on Elk L. ^{L. trout} - the residents do not know when it was ever stocked - attrib. plant to fish eating birds.

1926 - Boz. supplied TL eggs to Mont. for Upper Missouri R. above Gr. Falls. - 3 lg reservoir in vic. of Helena constructed by Mont. Power Co.

State operations at Georgetown reported successful over 5 million eggs to Bur. stations. State & Fed. cooperation said to be mutually beneficial. Rec'd 220,000 brook eggs from N.Y. in exch'g for grayling eggs.

Sent 275,000 cl eggs to Mystic L. for hatching and stocking.

Promoting wt. in L. McDonald Glacier Park. As to comm. fishery for wt in Flathead, additional wt fry were stocked from eggs taken from St. Mary L. in Glacier Park. The opposition to comm. operations voiced by some anglers was predicted to die down and the fishery to come into excellent production.

L. St. Marys being harvested commercially, about 15,000 lbs. - wt approx $1\frac{1}{2}$ #.

Georgetown L. reported the top producer of cl and grayling. Dr. Trece reported very few fish were stocked back into Georgetown L.

1927 - Boz. handled 32,190,966 total of fish and eggs - record of these, 14,400,000 TL eggs.

8/23/28 226,500 cl for western mont.
93,800 rt.

1932 - Recd. 11,591,500 L2 eggs from Ennis.

Rt eggs from Neosho, Mo., Manchester, Va., Wild Rose, Wis.
Creede, Colo. Brook eggs from Leadville, Colo. & Creede, Colo.

Recd 56,025 go. trout eggs from Cal F&S. for Wyo. & Mont.

1934 - Ennis - Boz. sub station 28,424,000 L2 eggs.

Construction under way at Miles City - operated by both
state and Fed.

Rail shipments by distrib car to Glacier Park, ^{Rt. cl} CV - Idaho -
^{rt-cl-eb} Mont. - ^{eb} Jeter Nail Park - ^{cl-eb-rt} Washington - ^{cl-eb-L-rt} Wyo. - ^{a-rt} YNP.

L2 eggs were widely distributed to many states and Can

1935 - Ennis 14,021,270 L2 eggs - prod. down due to ice gorges.
30,000 L2 eggs to Hawaii.

1936 - Made distrib in U.S. of 9,000,000 L2 eggs.

7/8/36 9600 #3½ brook Blacktail Deer Cr YNP.

7000 Rt Fraser Cr. - Gallatin Forest Serv.

1400. #1 Rt Mid. Hk. Flathead Cr. - "

Cl for Gallatin lakes.

6/14/40 Graying to Squaw Cr. - Gallatin.

1/2/41 Recd 450,000 eyed brook eggs from Lilly Hatchery.

9/13/41 Emigrant picked up 9000 3" brook for Smith Riv.

Golden Trout

25000⁰ schel for Mission Range Lakes

25000⁰ school for Mission Range Lakes

July 1930 - Bog, rec'd 50,000 Gp. trout eggs from Cal. F&H.

June 1931 - " " 50,000 " " " " " "

1932 - " " 56,025 " " " " " " For mon
E.W.G.

7/1/31 - Planted Calif. gp. trout in 5 Fork Little Wind River ^{2 yrs}

8/23/31 - For. Sew. requested 5200 go. trout #1.

9/8/31 - Helena area rec'd 6000 gp trout.

Trout were reported spawning in Golden Trout L.

8/3/38 6100 eyed go trout eggs - head of Wk Beaver Cr. - Gallatin Fm
16200 #1 Ho trout for Gallatin Fm.

8/31/38 12000 #1 " " Hidden L.

9/3/38 8000 #1 " " Go. Trout 2.

9/7/38 10000 #1 " " Lake near Anaconda.

3000 ±, " " Sylvan L.

10/7/38 Butternut Forest

2666 go. trans - Sears L.

2666 " " - Emerald L.

2668 " " - Lamar L.

1900 - Wide variation in responses as to whether or not limits should be imposed on fish. Some thought a daily limit of 50 lb. about right, others felt 10 lb. would be enough. As to size, it was thought there should be a min. length - suggestion from 9" to 6". One respondent said "anything big enough to eat it should go into the bin". General sentiment favored establishing a limit of some sort.

Pollutants presented problem - it was recommended that no coal be washed nor slack or dust placed in fish bins.

500 bass were planted in S. Lewis 1901-02, additional bass were hoped for. The reason for the bass plant was that the yellow perch were now very prolific in the lake and, since they were doing so well, the bass should thrive also.

1903-04 Wastes from cigarette operation was deadly - traps were needed.

1905-06 Settling ponds were proposed to alleviate pollution problems. The sugar beet industry threatened to be a pollution problem. Fish screens were still needed. U.S. Bur. Fisheries introduced lg. nos. of steelhead in Moun. Lakes and streams during period 1900-1906 - fish 2-4 lbs. reported caught.

1907 - Dr. James A. Henshell - Culture of Montana Grayling -
U. S. Bur. Fisheries Doc. No. 628.

Grayling orig. existed only in the tributaries of the Missouri Riv. above Great Falls and was first noticed by Lewis & Clark on their expedition. It was rediscovered by James W. Milner in 1872 in a tributary of the Missouri Riv. near Camp Baker, Mont. He described it and named it Thymallus montanus. Probably the Arctic grayling was the parent stock, transported south during the Glacial period, a theory strengthened by the abundance of grayling and lake trout in Elk Lake - the latter nowhere else west of L. Michigan.

Report of Board of Fish Commissioners - Montana
State Fish Hatchery. Jan. 1, 1909 to Dec. 30, 1910
To Gov. Edwin L. Norris

14,400,000 fish liberated from Anacosta in
lakes and streams.

\$2,500/year requested to make additions to buildings.
Requested ACM be repaid \$9,466.45 they had advanced
the hatchery for operations. The Co. had cooperated
and helped the hatchery in a number of ways.

"Fishing trains" mentioned - said those in charge noted the
fishermen were keeping lg. nos. of sm. trout. A 7'
limit and a pound limit were needed.

Eggs were received from Rhode Island.

Distribution unexpectedly disrupted by all railroad recalling free transportation, including fish car.

Report of Commissioner of Fish and Fisheries - 1892
Senate Misc. Documents - 1st Session - 52nd Congress
1891-92 - Vol. 3.

Fisheries investigations in Mont. and Wyo by Prof.
P. W. Evermann.

Started at Helena July 18, 1891.

Hatchery sites recommended -

Horseshoe Springs - NW corner of YNP.

Bottler Springs - N of YNP, 3 mi south of Fridley and
opposite Emigrant Peak (Emigrant Sta.)

Davies Springs - Bridger Cr. near Bozeman.

Others included Childs Bedrock Drain, 6 mi east
of Helena - Cottonwood Cr. at Deer Lodge -
Rattlesnake Cr. near Missoula.

Rec'd consid. assistance and interest from
Sen. T. C. Power of Helena and Col. Childs
sampled with seine - list of waters.

Grayling and whitefish in the Madison Riv., also
blobs, dace, suckers.

Little Blackfoot Riv. clear above Elliston - muddy
below due to mining activities.

Checklist of fishes.

Fish planted in YNP 1889-90 by U.S. Fish Comm

9/22/89	- Gardiner Riv.	- Ec	- 4,975
9/15/90	- W Fk. Gardiner Riv.	- Ec	- 7,875
9/22/89	- Gibbon Riv.	- Rb	- 990
9/22/89	- Firehole Riv.	- LL	- 995
9/2/90	- Lewis L.	- LL	- 3,350
9/2/90	- Shoshone L.	- LL	- 3,350
9/22/89	- E Fk. Gardiner Riv.	- Cv	- 968
8/9/90	- Shoshone L.	- L Tr	- 18,000
8/23/90	- Shoshone L.	- L Tr	- 7,262
8/23/90	- Lewis L.	- L Tr	- 7,263
9/2/90	- Lewis L.	- L Tr	- 4,750
9/2/90	- Shoshone L.	- L Tr	- 4,750
7/15/90	- Nez Perce Cr.	- Von Behr	- 9,300
10/3/89	- Twin Lakes	- Wf	- 2,000
10/15/89	- Yellowstone Riv.	- Wf	- 980
8/15/90	- Yellowstone Riv.	- Wf	- 5,000
9/11/90	- Yellowstone Riv.	- Wf	- 5,000

Ch. abundant on the Yellowstone Riv. above and below the falls.

Plates of Fishes.

Dr. Henshall reported in a bull. from Univ. of Mon at Missoula in 1906 that U.S. Des. Fisheries planted in Mon Lake Superior Wf - Rb - LL - L Tr - Rb - LMB - SMB

40
ANACONDA STATE FISH HATCHERY

In 1907, Mr. E. P. Matnewson, President of the Montana Fish and Game Commission, General Manager of the Anaconda Smelter, an ardent sportsman and conservationist, was instrumental in securing a site and building a fish hatchery, a residence and an ice house.

On November 14, 1908, John D. Ryan, President of the Butte, Anaconda and Pacific Railroad, granted for One Dollar (\$1.00) The certain irregularly shaped piece, parcel or tract or land and lying wholly within the Northwest Quarter of Section 3, Township 4 North, Range 11 West, 4.36 acres more or less, together with all pipe lines, conduits and drains, nursery and stock ponds, fences, buildings, erections and structures of any kind whatsoever, that have been and are now constructed, maintained and established on the said tract hereinabove described by the grantor herein.

Also that certain strip piece, parcel or tract of land 8 feet in width, being 4 feet on either side of the center line that contains wooden conduit or pipe line 6 inches in diameter, now located, constructed and maintained on the ground for the purpose of carrying water from that certain flume of the grantor herein, unto the site of the fish hatchery of the grantee herein, over a portion of the Northwest Quarter of Section 3, Township 4, Range 11 West of said Montana Meridian. Water (Old Works) being taken out of a flume 4" x 8" belonging to the Anaconda Copper Mining Company from said point Southeast corner of Section 34, Township 5 North, Range 11 West, 12 inch wood pipe running 1110.7 feet.

Also all the waters of those certain springs situated in said Northeast Quarter, Section 4, Township 4 North, Range 11 West, or sufficient quantity of said waters of said springs to equal the capacity of said wooden, conduit pipe line, 12 inches in diameter (being about five second feet) hereinbefore mentioned, that is now located, constructed and maintained on the ground for the purpose of carrying said quantity of water rights, privileges, appropriations and claimed hereinafter, to-wit, in 1879, located, appropriated, claimed and used by one Alexander Glover, and by him conveyed unto the predecessors in interest of the grantor herein, by deed of date July 14, 1883, which said deed was recorded on July 15, 1883, at page seven of Book V of deeds, records of said Deer Lodge County, Montana. To which record reference is hereby made for more particular description.

Also a sufficient quantity of the waters of Warm Springs Creek in said Deer Lodge County now being diverted from Heffner's dam into that certain wooden flume known as and called the "Old Works Flume" the property of grantor herein and having a capacity of five feet by eight feet (5' x 8') to equal the capacity of that certain wooden conduit or pipe line, 6 inches in diameter being about three (3) second feet hereinbefore mentioned and now located, constructed and maintained on the ground for the purpose of carrying said water from a point on said "Old Works Flume" to said State Fish Hatchery: said water herein conveyed being a portion of the water rights and privileges originally and heretofore, on November 8, 1882, located appropriated and claimed by one Morgan Evans, and notices of which location, appropriation and claim of water and water rights was recorded November 13, 1882, at page 791 of Book H of Miscellaneous records of said Deer Lodge County, and also located, appropriated and claimed by one William McCaskell, on June 6, 1893, and notice of which said location, appropriation and claim of water and water rights was recorded June 9, 1893 at page 121 of Book I of Miscellaneous records of said Deer Lodge County to which several notices of appropriation and claim and the record thereof, reference is hereby made for more particular description.

Witness, the corporate name of the grantor herein, by its President, thereunto duly authorized with its corporate seal hereto affixed and attested by its Secretary this 14th day of November A. D. 1908.

John D. Ryan, President

Anaconda Copper Mining Company

ATTEST

C. F. Kelley, its Secretary

Little is known of the production during the first four years, then under the supervision of Mr. C. F. Healea. In April 1909 records show where grayling were transplanted to Georgetown Lake.

In 1912, 900,000 eastern brook were hatched and distributed. Traps were put in Stuart Mill Creek on May 1. One hundred thousand native eggs were secured from Georgetown Lake and Silver Lake together. Largely through the efforts of Senator Myres, 2,500,000 eggs were received from the U. S. Bureau of Fisheries operating in Yellowstone Park. They filled the hatchery to overflowing and it was necessary to construct two new hatching troughs. Two thousand, six hundred were retained in a nursery pond for experiment. In June 1,000,000 grayling eggs were taken at Georgetown Lake, and 600,000 fry were distributed.

The residence was remodeled and a hot water heating system was installed. The hatchery building was enlarged by 15 feet, providing room for an office and a small shop, had a cement basement for coal storage. A small room was provided for preparation of fish food, and a 15 inch Pelton wheel, a #42 Enterprise chopper being installed to cut liver for fish food. A 22' x 24' building was constructed for garage or stable. A cement division wall was put in stock pond for better control in handling fish. The old cement 30' x 60' pond was divided into 10 small nursery ponds, changed water pipes. Buildings were painted and a few trees set out and lawn graded. The hatchery enlarged for 20 more troughs and a grayling battery capable of incubating 10,000,000 grayling eggs.

During the 1930's an improvement program using W.P.A. labor included the construction of two circle ponds and other improvements, new fence, etc. A one-stall garage later used as a meat room for preparing fish food.

In 1940 a five-room house was constructed with a full basement.

In 1948, 16 new 10' x 4' x 100' raceways, cement and two circle ponds, cement were constructed to raise larger fish. Ice house remodeled and a new freezer unit installed for keeping fish food.

In 1952 a duplex was constructed for housing two more employees at the hatchery.

In 1954 a three-stall garage was added for trucks and shop space, also more storage.

Three large dirt ponds, one used for a brood pond.

Over the period of years that the Anaconda station has operated, the largest single year of egg processing and eyeing was 10 million. The largest year and the largest number of eggs handled for use by Anaconda and other hatcheries was 35 million. Of these eggs, a great share of them were processed through the Anaconda

-2-

In 1946, Montana formulated a hatchery distribution district system which set aside for the Anaconda station the waters contained within the Clark Fork of the Columbia River drainage from its headwaters to Missoula, and the Missouri River drainage, the headwaters of the Big Hole River above Dillon.

With the more recent development of put-and-take fish, more emphasis has been put on raising catchable sized fish. However, a decided shift is being made with the plantings of lakes under the new Fish Management Policy of the Fish and Game Department. This Policy was adopted in 1954.

The egg collection stations as started in 1912 were Georgetown Lake and the Montana State Fish and Game Commission has maintained these stations, and annual egg collections are made each spring. The hatchery operations follow the general picture of hatchery operations throughout the United States.

Lewistown Log

MacDonald trav. to Lew. July 7, 1922 to open the hatchery. No equip. Horses and cattle had been on the porch - broken windows etc. Fixed sta. up and rec'd 246,750 rb eggs from Anaconda on July 11. Rec'd 468,720 ct eggs from Ana. on July 15. Planted fry July 14-17 - Hobson Stanford area. Closed sta. 8/31/22.

Mr. Treese - Mar. 22, 1924 - Rec'd 500,000 Steelhead eggs on Mar. 24. Fed fry gid liver & cooked mush.

Hoglund - June 20, 1924 - Rec'd 673,478 ct eggs from Emigrant June 24, 1924. Aug. 12-16 distrib. fish to Harlo - Moccasin - Grass Range. Oct. 7-10 fish to Ryegate, Martinsdale, White Sulphur Springs. Closed sta. Oct. 11-12, 1924.

1925 - Rec'd rb and ct eggs from Ana. 1cs ct from Emigrant. Over Hoglund to Big Timber - Geo. Miller to Lew. June 13, 1925 - Bachelor June 19, 1925. July 2, 1925 - Miller reported getting only small lots of liver due to tracks being blocked by earthquake. July 20, 1925 - ct for local applications - Bean Cr., Beaver Cr., Marden Canyon, Ford Cr., N 7k. Ford Cr., Deer Cr., Castle Cr., Durfee, Shaw, Potter, Cottonwood. Many cans no

ct distrib. to Harlo, Judith Gap, Lennep, Whin Sulphur,
Moccasin, Holson, Lew. Closed sta. Aug. 30, 1925.

1926 - Larson opened sta. Rec'd 203,720 rb eggs and 3 cs
ct eggs - brought by Schofield and Battler.

June 4 - City water main broke, water off with
consid. loss - 10,000 rb - 290,000 ct. June 28 - Todd
took charge of sta. - Closed sta. Sept. 4, 1926

1927 - Raes and Hathaway arrived at sta. June 9 - Rec'd
39 cans sb from B.T. for distrib. at Lew. and Roy.

June 26, rec'd 1 cs. ct eggs from B.T.

June 30, " 348,000 ct eggs from B.T.

July 3, " ct eggs from B.T.

July 7, " rb eggs from Ana.

July 25, Hathaway reported adjusting valve to elim.
surplus air in the water.

Aug. 1 - On hand - 964,185 ct fry - 209,172 ct eggs - 80,040
rb fry. Brought tank to distrib. fish Aug. 9. Planted
398,200 ct in Sept - Judith R., Spring Cr. Closed sta. Sept. 10

1928 - May 24 - Schofield and Donaldson.

June 2 - rec'd 189,800 rb eggs from Hilroy, L. Roman

June 14 - rec'd 2 cs ct eggs from B.T. 423,948

June 20 - rec'd 1 cs ct eggs from B.T. 203,675

Distrib 958,569 ct in Aug. Closed sta. Aug. 27, 1928

1929 - Donaldson from B.T. May 29

June 7 - rec'd 1cs rb eggs from B.T. 140,800

" 9 - " 2cs rb " " 281,600

" 11 - " 1cs rb " " 140,800

July 3 - " 2cs ck " " 318,402

" 16 - " 3cs ck " " 620,928

" 17 - " 1cs ck " " 206,976

Hauled several loads of rb to Warm Springs Cr.

Jansen took charge of sta. Aug. 29. Distrib. 617,520 c
in Sept. Closed sta. Sept. 18, left for B.T.

1930 - Donaldson, May 29

June 3 - rec'd 3cs. rb eggs from Valier 523,000

" 11 - " 1cs rb " " Meadow Cr. 164,000

" 15 - " 1cs rb " " " 86,000

" 18 - " 3cs ck " " B.T. 574,000

Closed sta. Sept. 14.

1931 - Donaldson, June 3

June 12 - rec'd 3cs. rb eggs from L. Ronan 556,000

" 23 - " 3cs. ck " " B.T. 554,000

" 28 - " 3cs. ck " " B.T. 449,000

Aug. 6 - lg. rb losses due to heavy hail storm
Distrib. 1,160,000 fry. Closed sta. Sept. 29, 1931

1932 - Boteler and Weaver, Mar. 16.

Mar. 24 - rec'd 2cs rb eggs from Wild Rose, Wis.

Mar. 25 - 1-7-8 cl. l. -

1932, cont. - June 20-28 - Stubblefield at sta.

July 1 - rec'd 518,000 ct eggs from B.T.

July 4 - Larson reported air conditions bad.

Sept. 7-11 - Keller from B.T., planting fish.

Oct 15 - Cox arrived at sta. with furniture from Ana.

Oct. 16 - Hoglund took charge of sta. - Larson and Cox to Empira.

Dec. 27 - Rec'd 2 cs rb eggs from Springville, Utah. Mrs. helped in.

1933 - Jan. 1 - put away 1 cs. 52,000, eyed silver salmon eggs.

Jan. 4 - rec'd 1 cs eb eggs from Troy.

Jan. 18 - Salmon eggs bursting rather than hatching.

Feb. 2 - rec'd 2 cs rb eggs.

Mar. 22 - 2 trips to Warm Springs Cr., 1 to Spring Cr.

" 23 - 1 trip " " " " " " "

July 3 - rec'd 1 cs rb eggs.

Sept. 14 - rec'd 3 cans LMB from Miles City - gave them to Stanford Rod & Gun Club.

Nov. 17 - rec'd 1 cs eb eggs from Ana.

FERA C.W. crew excavating for ponds and pipeline.

1934 - Jan. 26 - rec'd 1 cs. rb eggs from Utah.

May 16 - " 1 cs rb " " Ana.

May 18 - " 1 cs rb " " "

June 16 " 2 cs ct "

Oct 10 - Took Cadwell to Middle Fork for Stream Survey.

Nov. 26 - rec'd 3 cs. rb eggs from Springville, Utah.

1935 - Apr. 5 - fishermen caught 2 fish in Spring Cr. - heads of the fish were covered with air blisters. Sand caused by excess air in water immmed. below hatcher
Apr. 15 - treated rb with potassium permanganate for fin rot.
May 8 - Cooked 100[#] suckers in pressure cooker, mixed with flour, middlings, liver meal - fish took mixture readily.
May 11 - Tried feeding fish Purina Chick Starter.
May 30 - rec'd 3 cs rb eggs
June 26 - rb starting fairly well on liver and chick starter
July 2 - rec'd 2 cs cl from Ana.
Rec'd dried milk from Calif. - 2 sacks Kinnays Fry Feed liver meal - Egg-glo.
Aug. 4 - Pilot Burt Walker flew six 5-gal. cans cl fry to middle fork - 2 cans Sept. 1.
Oct. 2 - went to B.T., got 200 albino lb - 20,000 golden trout
" 8 - Sent cooking utensils to S.S. Drew at West Yellowstone
" 18 - Reported light earthquake 9:50 p.m.
Nov. 9 - 300[#] chick starter Nov. 13, 300[#]
Dec. 7 - Sportmen claim no big fish caught in Spring Cr., Hoglund gave them list of plants
Dec. 13 - Reported golden trout not doing very well.

1936 - Jan. 5 - rec'd 1 cs lb eggs from Libby
Feb. 7 - Hoglund rec'd breeches, pants & jacket of new Dept. uniform - sloppy fit.
Apr. - Phillips at sta. for about 10 min.
May 18 - John Cox reported for duty
May 20 - rec'd new Chev. pickup - \$490.39

June 7 - rec'd 1 cs rb eggs from Ana.

" 13 " 2 cs rb " " Sprungville, Utah

" 17 - " 2 cs cb " " Ana.

July 16 - Sup't Phillips at Sta. - discussed remodeling house and building a power plant.

Aug. 4 - Hoglund made 2 trips to govt fish car at Moccasin planted fish for Rod & Gun Club in Sprung Cr.

Aug. 12 - Heavy rains, consid. mud in ponds.

Oct. - WPA to help build office - basement for house

Nov. - Moved house to basement.

Dec. - rec'd 2 cs sb eggs from Libby.

1937 - Jan. - working on new house - Cox, Hoglund, Drew, Link
Hoglund moved into house Jan. 5.

June 8 - Hoglund to Yellowstone L. - Cox in charge of Sta.

" 16 - rec'd shipment of eggs from Story, Wyo.

" 18 - rec'd " " " , 1 cs., from B.T.

" 25 - hauled sb from govt fish car

" 26 - Stubblefield with 300,000 grayling fry for Warm Springs Cr.

July 7 - Hoglund returned to Lew.

Aug. 15 - Pilot Burr Walker flew 10 cans sb to Middle Fork

Aug. 31 - Cox last day.

Oct. 15 - To B.T. - 6 sacks Seal meat.

Nov. 22 - Spawned fish - 43,400 eggs.

Nov. 28 - " " - 39,200 " - 42 fish

Dec. 5 - " " - 44,100 " - 50 "

" 11 - " " - 74,900 " - 88 "

Trouble with water levels when city pulled hard

1938- Jan. 7 - Keller left 4 sacks salmon carcass meal.

June 8 - rec'd 2 cs rb eggs from B.T. 1 cs grayling from Ans

" 20 - Rains washed mud and silt in ponds. Cox reported

Aug. 13 - distrib. grayling to Smith Rv.

Sept. 6 - Bog. - 23 sacks seal meat.

Oct. 12 - 25 pairs catfish to Wannett - gov't fish car.

Nov. - took eggs from brood fish.

1939 - Oct. 16 - Eli Melton to sta. Hoglund vacation. Melton
left. Nov. 2 for Kal. Nov. 21 - took eggs.

1940 - Jan 10, - rec'd 1 cs rb eggs from Springville, Utah.

" 31 - " 2 cs " " " " " "

Apr. 23 - Leo La Tray on labor crew at hatchery

July - new ponds completed

Aug - new house completed - moved furniture.

Oct. 16-25 - Snyder to Lew. Rel. again Nov. 9

Started spawning brood fish in Dec.

1941 - Jan. 8 - Rec'd 2 cs rb eggs from Springville, Utah.

La Tray off for month of Feb.

June 9, Snyder to Red Lodge

Aug. 7 - got REA power

Sept. 3 - Tangen to sta.

1942 - Aug. 16 - rec'd 1 cs cb eggs from YNP

Nov. 26 - Tangen to Polson - La Tray moved into house
vacated by Tangen.

1943 -

1944 - La Tray to Navy Apr. 12 - replaced by Redpath who left Aug. 27. Sept. 13 - John Cook took rb to Brush L.
Oct. 19 - Jadevald reported - moved in on 26 and 27.

1945 - Crew seemed over 207 of suckers from Ackley L.
June 13 - took rb to Brush L.
July 4 - Brought 2 tanks of pike from Pike L. -
planted them in Warhorse L. on July 6.

1946 - Jan. 6 - Hoglund to Great Falls.
June 12 - Shroy arrived at sta.
Feb. - La Tray back, moved to Great Falls.

1950 - Jan. 13 - rec'd 100,000 KOK eggs from Somers
Apr. 23 - Howland started - quit Sept. 15.
Nov. 1 - Colley to sta.

JULY 3, 1929 - TURQUOISE BASIN - MISSIONS - ST. IGNATIUS RODEG.

120,000 CT EGGS PLANTED IN ICEFLOE LAKES

12,000 " " " " UNNAMED LAKE

15,000 " " " " " "

48,000 " " " " FALLS CREEK LAKES

JULY 7, 1929

5,100 CT EGGS PLANTED IN UNNAMED LAKE

10,200 " " " " " "

JULY 28, 1929

230,400 CT EGGS PLANTED IN GRAY WOLF LAKE

PLANTING PRACTICE BEGAN IN 1925 WHEN ST. IGNATIUS SPORTSMEN PLANTED FRY IN SNIELMAN LAKE - A VIRGIN LAKE - AND THE FISH DID WELL. GOOD CATCHES WERE MADE IN 1928. SNIELMAN LAKE IS ISOLATED BY FALLS.

F&G COMMISSION SENT F.M. O'BRIEN ALONG WITH THE SPORTSMEN TO STOCK THE MISSION LAKES.

COMMISSION MEETING 9/26/29

INVESTIGATING THE PURCHASE OF THE ANDERSON HATCHERY AT EMIGRANT - OWNED BY GEO. MILES, BROTHER OF SEN. MILES. SITE CHECKED BY DR. CRAWFORD WHO SUGGESTED ABANDONING THE EMIGRANT HATCHERY AND USING THE ANDERSON SITE.

MR. SCHOFIELD INSTRUCTED TO SPEND NOT OVER \$1,000 FOR MATERIAL FOR A COTTAGE AT THE MILES CITY POND CUL. STA. COTTAGE TO BE BUILT BY U.S. BUR. FISH. PERSONNEL.

STREAMS, EXCEPT FOR LG. RIVERS, WERE CLOSED EARLY BECAUSE OF DROUGHT AND FEAR OF UNDULY DEPLETING THE STREAMS OF FISH.

DR. D. R. CRAWFORD - U. OF WASH. DEPT. OF FISHERIES - WAS HIRED TO SURVEY MONT. FISH HATCHERY SYSTEM. 6/24 - 9/24/29.

FISH - CT - DYING IN REARING PONDS AT POST CR. ALGAE - WATER TEMPS. UP DURING DAY - INSUFFICIENT FLOWS. SUGGESTED RZ.

MISSOULA HATCHERY - RATTLESNAKE CR. WATER - CITY USING MOST OF FLOW - DAYTIME TEMPS. HIGH - SUGGESTED ABANDONING THE SITE.

ANACONDA HATCHERY - BEST EQUIPPED BUT INSUFFICIENT WATER SUPPLY.

EMIGRANT HATCHERY - AUXILIARY TO BIG TIMBER - NO APPARENT VALUE - INADEQUATE WATER - SHOULD BE ABANDONED

RED LODGE HATCHERY - AUX. TO BIG TIMBER - WATER FROM CITY SYSTEM - CITY MIGHT NEED ALL WATER AT SOME TIME. EGGS AND FISH COULD BE HANDLED AT BIG TIMBER - ACCESS POOR - SHOULD BE ABANDONED

LEWISTOWN HATCHERY - ABUNDANT WATER - FEW PLACES TO PLANT FISH - COULD BE ABANDONED. AND THE PLANTS MADE BY BIG TIMBER & R. FALLS

GREAT FALLS HATCHERY - SERVES WIDE TERRITORY - SHOULD BE MADE ONE OF THE BEST HATCHERIES - HAD HEAVY LOSSES, MECHANICAL PROBLEMS, LOW O₂.

ROCK CR. HATCHERY - AUX. OF ANACONDA - BLDGS. AND SITE POOR - NEED

BIG TIMBER HATCHERY - ADEQUATE WATER - RECOMMENDED
INCREASING THE NO. OF TROUGHS FROM 34 TO 64.

COMMISSION MEETING APR. 11, 1930

PAPERS FOR PURCHASE OF ANDERSON HATCHERY NEAR EMIGRANT
CORRECTED - \$8,000 WITH ALL OF THE FISH IN THE PONDS 17 1/2 A.

FISH IN PONDS TO BE TAKEN FOR EXPERIMENTAL PURPOSES.
EXPERIMENTING WITH FISH SCREENS AND LADDERS. REARING POND

REPORTED MCNEIL BROS. JENNIS, IAR. AT NELSON RES - 3500'
SEINE. 14 CARLOADS SALMON, 30,000 LB. EACH. 3-5 1/2 LB. 9 TO 12 CPE

BUTTE ANGLERS - WM. CARPENTER PRES. 1930. CLUB OF SMALL
HATCHERY AT LINDSEY PLANT, 20 TROUGHS, COMPLETED IN 1929. CLUB
CONTEMPLATING REARING PONDS AT MAIDEN ROCK. PLANTED 2,500,00
FISH IN 1929.

REPORTED THE BILL APPROPRIATING \$50,000 FOR HATCHERY CONSTRUCTION
AT MEADOW CR. HAD PASSED THE SENATE IN 1930 - WOULD UNDOUBTEDLY
BE SIGNED BY PRES. TIDWELL

BIG TIMBER LOG

DEC. 8, 1926 - REC'D 2 CS. LL EGGS - 202,100

11 " - " 1 " " " - FROM EMIGRANT

16 " - 1 " " " - " "

29 " - 2 " SALMON " - " OREGON - KEPT SOME - 1 CS G.F., 1 CS EM.

31 " - 1 " LL " - " BOZEMAN - 206,640

APR. 30, 1927 - } " 7-8 MILLION CT EGGS FROM ANACONDA

JUNE " - }

JULY 27, " - " 5 CS EYES CT EGGS FROM YELLOWSTONE PARK.

OCT. 26, " - " 513,040 LL EGGS FROM NORRIS STA. U.S. BUR. FISH & WIL.

MAR. 31, 1928 - ART TANGEN TO EMIGRANT AS ASST.

APR. 23 " - " 131,600 EYES RB EGGS FROM STAR PRAIRIE, WIS.

200,000 LL TO HELENA AREA IN APRIL - SENT IN CANS IN DRAGG

LAKE FRANCIS - BIENNIAL REPORTS.

STATION COMPLETED IN 1929

DISTRIBUTED - 12,830 RB IN 1930

24,342 RB IN 1932-33

COLLECTED - 700,896 RB EGGS IN 1933

414,460 " " " 1934

1,001,932 " " " 1935

730,652 " " " 1936

NO FURTHER RECORDS OF EGGS TAKEN

SPENT - \$ 13,210.68 IN 1929

8,103.30 " 1930

1,715.27 " 1931

863.32 " 1932

APPARENTLY COSTS AFTER 1932 WERE
CHARGED TO THE STA. THAT REC'D THE EGGS
1933 THROUGH 1936.

Day Ledger

May 1931 - 2" LL Hoiter - Hauser - Hobgen

May 1933 - Rein L. 4400 sockeye salmon

Aug. 1934 - B.T. planted 154,000 steelhead

Sept. 1935 - 18,000 Ad. Fry Rb in Gibbon Riv. - requested
by Park Service.

July 1936 - G.W. Res. 15,860 - 2 1/2" sockeye.

Aug 1937 - 780,500 cl in Park.

Sept. 1937 - 862,400 cl " " .

" " - 140,000 rb " " - Gibbon Riv.

Aug. 1938 - 23,500 rb " " - " "

Sept. 1938 - 23,500 rb " " - Nez Perce Cr.

Oct. 1938 - 69,000 gr planted from BT.

July 1940 - 30,000 rb - 1 1/2" Park - Slough Cr. - also Gibbon R.

Apr. 1941 - 23,850 coho - 2 1/2" - Upper Glass Lake.

Red Lodge

July - Aug. 1932 - 70,000 Eb 3" - Carbon Co. lakes - plus cl.

Sept. 1932 - 538,000 AF cl

July 1933 - 2,000 Eb 3" - consid. exchange with Wyo.

Aug. 1933 - 300,000 Eb 3" - Carbon Co.

June 1934 - 28,000 Eb 3" - " "

July 1935 - first rt - Red Lodge.

Sept. 1935 - 11,000 Eb 3" - Adam L. Jordan & Silver L.

Aug. 1937 - 12,480 AF Rb - Cooney Dam.

Eb at Red Lodge through 1941.

Apr. May 1945 - 100,000 pike fry from BT into Yellowstone R. at Laure

Mar. 1952 - 243,760 kok fry - Deadman, Bailey, Lower Glass L., Cooney,

No Eb at BT after 1954

1956 - Trans. from BT to BW 310,464 Kamloops fry.

COOPER'S FILES

OVANDO - SOLD 11/17/64 - C.F. SYBRANDT - MONTEREY PARK - CALIF.

DUCK CR. - FOR SERV. USE PERMIT DISCONTINUED 7/5/72 - ISSUED 3/5/35. AT THE SAME TIME THE USE PERMIT FOR THE MAIN MAISON STA. WAS MODIFIED TO INCLUDE RESIDENCE ONLY.

EMIGRANT - SOLD 8/20/65 - JULIAN READ - PRAY, MONT.

MCNEIL PIKE HATCHERY - SOLD 7/31/64 - BOY SCOUT TROOP 29 - MALTA. USBR LEAS

SMITH LAKE - WATER RIGHT 6/30/38 - PERMIT TO CONSTRUCT DAM 6/4/49

SO. FORK MADISON - USE PERMIT DISCONTINUED 1966 - ISSUED 5/20/38

POLSON STA. - LEASED TO DR W.G. TANGLIN 11/63 - TRADED TO HIGHTOWER & LUBRECHT CONSTR. CO. 7/65 FOR LAKE ACCESS.

RED LODGE - GRANTED 99-YEAR LEASE BY CITY OF RED LODGE 5/11/37.

SUPPLEMENTAL LEASE FROM DEPT. FOR CITY PARK & MUSEUM 8/58

AFTER HATCHERY USE DISCONTINUED COMM. SURRENDERED LEASE 1/20/64

HAMILTON - SOLD 1/67 TO J.J. STEPHENSON, PLEASANT GROVE - CALIF. - HATCHERY USE BY DEPT. DISCONTINUED 1961. USED AS GAME DIV. FIELD STA. UNTIL SOLD.

Ernie

Placate

1949-1965

Notes from Annual
Reports 1933-1941

5 hand written pages on hatching

Madison R.

Therston Home Ranch.

Where Oilwell Cr. entered
Med. no. of ffgers.

opposite
Elephant mile ford

Spring Cr., upper & lower Oilwell Cracks

22,000,300. - 11,591,500 of

Montana State Holchenne

9 - 999,900 eggs - Lake Con

Butte Anglers Club.

Saratoga Wyo. 23,900

el for seeping eggs

- took 28,424,020 - 15,942,200 distr.

el, 4,823,900 as fgy - 2,422,600 as

2 fingerling #1 - 316,200 as 1 1/2 & 2

fingerling.

50,000 to -

50,100 to Butte Anglers.

Re. reconstruction of McBelister hatchery.

1935 L Eggs Oct. 14 - Dec. 15 - 25,511,635
23,902,220 -

14,021,270 Bogs. - 1,896,000 Ana. - remainder local plants

Rb - Mar 11 June 5 995,415 eggs - 196,050 all and more
remainder local as fgl.

50,960 Butte Anglers Rb Eggs

Re. intensive stocking of Madison R. with Rb fgl.

1932 - FELT CLEARWATER LAKES HAD TOO MANY
SQUAWFISH & SUCKERS. PLANNED TO DEV. BETTER TROUT FISHERY

DEPT. ACQUIRED TITLE TO DALY HATCHERY AT HAMILTON IN 1933 FOR
\$4500. COST \$30,000 IN 1918.

ENNIS - 1933

OCT. 11 - NOV. 21
LL EGGS 22,010,300 MEADOW CR. - SPRING CR. - UPPER & LOWER O'DELL CR.

4,000,000 TO MONT. STATE HATCHERIES

APR. 3 - MAY 29
1,000,000 RB EGGS - LAKE LOW

50,000 RB EGGS TO BUTTE ANGLERS.

REC'D 23,900 BLACKSPOTTED BROOD FROM SARATOGA, WYO.

1934

EYED SOME EGGS AT McALLISTER.

OCT. 11 - DEC. 14

LL EGGS 28,424,020

50,000 RB EGGS TO BUTTE ANGLERS.

RECOMMENDED RECONSTRUCTION OF McALLISTER.

1935

OCT. 14 - DEC. 15

LL EGG 25,511,635

2,000,000 TO ANACONDA.

50,960 RB EGGS TO BUTTE ANGLERS

RECOMMENDED INTENSIVE RB STOCKING IN MADISON DRAINAGE

1936

OCT. 17 - JAN. 1

LL EGGS 14,372,451 - HAMPERED BY COLD WEATHER

APR 9 - MAY 28

RB EGGS 2,589,405

1937

OCT. 14 - DEC. 28

LL EGGS 10,566,415 - POOR CONDITIONS - POWER CO. MANIP. LAKE LEVELS.

RB EGGS 1,015,750 FROM WILD - 43,455 FROM BROOD.

Madison Log

- 9/11/33 Drew picked trap locations on Madison R. - below Curvey
9/12/33 " " " " " S. Fork and Duck Cr.
9/16/33 Started racks in Duck Cr. - Geo. Miller, for DeMorse. Finished 9/
9/22/33 Worked on S. Fork traps.
9/27/33 Worked on main Madison traps - Cox arrived to help.
9/29/33 About 200 ^{brown trout} LL in traps at Duck Cr.
10/5/33 Lg. nos. fish observed below Madison and S. Fork traps.
10/10/33 Finished main Madison traps, worked on second Duck Cr. rack
10/15/33 First eggs at Madison and Duck Cr. 344,560. To Ana.
10/16/33 Drew quit and left for Lincoln.
10/20/33 Sheehan arrived to help.
1933 - 4,864,320 LL eggs.
4/16/34 Spawned rb in all 3 traps - 423,360. Eggs to Ana.
Apr. May '34 - 5,522,790 rb eggs. Shipped to Ana, Emeryant, B.T.
9/2/34 Hoglund over from Red Lodge to help.
9/9/34 Keller over from B.T. to help.
10-11/34 Jagged rb and LL at traps.
1934 - 5,735,040 LL eggs.
5/35 - Jagged rb. 12,418,936 rb eggs - Ana., Hamilton.
8/9/35 Back for fall spawning.
9/35 Building log cabin at Madison
1935 - 601,440 LL eggs Oct. 26 to Nov. 16
4/7/36 Arrived at sta. - drove to Ashton Idaho, took plane to
West Yellowstone - hauled supplies to sta. by dog team. 59" sn
6/1/36 2 suckers in trap at Duck Cr. - first heard of in Hebgen L.
9/29/36 Link built incubator. Lg. nos. wt in traps in Oct.
1937 - Spring - set up hatchery system - concd. alone egg picking

9/17/37 - rt. fry to Hidden L. - Drew and Mullen

1937 - 4,009,508 LL eggs.

1938 - Took eggs up through 12/2/38

1939 - Took trough to Armstrong Springs - eyed eggs to Ennie 6/10/39

11/1/40 - Baker over from Ennie to keep

11/28/40 - Closed sta. for the season.

3/1/41 - Back at sta.

1/42 - put eyed eggs from Armstrong Spring into gravel, Madison R.
Eggs at Siler Springs.

Aug. 1942, checking for Utah chubs in Hebgen L.

1943 - Mar.-Apr. - Fed elk on Duck Cr. and Cougar Cr.

Eyed eggs at artesian well on S. Fork.

2/23/44 - layed out trap site at Harrison Res.

1946 - Checking for chubs in Hebgen - apparently not too many.

11/17/48 - Last log entry.

22 Jan 70 Dr. C.J.D. Brown mentioned to Geo. Holton that about 1936-7 he was on fish planting trips when Salmo salar were planted in Madison, Gallatin and Yellowstone Drainages.

Creston

- 1939- Work on hatchery started March 1, 1939 - station to be called Glacier Nat'l Park Fish Hatchery. (Kebbe, 1940 -
- Went into production Feb. 2, 1940. Hatched 492,093 Eb reed from Colo. - 311,040 rb reed from private hatchery near St. Agathus - Port Creek hatchery.
- 1941- Reared rb - Eb - Black-spotted - 240,113 - 2 1/2" Ashley L. Stoss to be held for brood - reed 150,260 eyed eggs from Ashley L. operations of Dept. Lg. no held and reared over winter to larger fingerlings. (Pelmar)
- Reed 1,998,739 blackspotted trout eggs from YNP - some from Somers. Reed rb eggs from Rainbow Ranch, private hatch at Troy - some from Wyo. state operations.
- Reed rb eggs from Libby hatchery
- Park Service distrib. fish in Park waters.
- Some gyro - octo - gut disease problems.
- 1942- All fish deliver. to Glacier Nat'l Park. (Cooke)
- Took 91,120 et eggs at the station.
- Put cl in Jessup meir Pond
- Reed 800,464 cl eggs from YNP.
- Glacier Park requested conc. on stocking blackspotted trout
- Planted 7,645 rb yearlings - at request of Park no further rb operations considered.
- 1943- Glacier Park requested distrib. of rb and rb be discontinued until after the war.
- Reed 590,000 blackspotted trout eggs from YNP.
- Some gut trouble reported.

- 1944 - All fish from station planted in the Park.
 Station transferred from Park Serv. to F&W Serv.
 Only blackspotted reared - 500,000 reed from YNP.
 Recd 100,000 eyed blackspotted eggs from Somers - Ashley strain.
 Recd 101,088 eyed sb eggs from Libby.
 Water supply opened to fishing - mostly sb.
- 1945 - Increased planting area to include some State waters.
 Marked cb going into the Park 3 1/2 - 5" fish - Wm Hagen.
 Recd. 34,020 eyed l. tr. eggs.
 Still feeding meats. State helped with distribution.
- 1946 - Hagen marked 87,250 blackspotted - 3-5".
 Justus to Creston - Corie to Portland for yr.
 Distrib. 363,976 blackspotted - Somers, Ashley strain. 84,980 sb
 reed from Libby, 26,621 mackinaw - eggs from L.G. Drew.
- 1947 4/5 of output geared to blackspotted - preferred by sportsmen
 384,360. 2,891 mackinaw 5-9" in St. Mary's L. - G.N.P. - Recd
 100,640 eyed mackinaw eggs from Manitoba. Planted 81,617 sb
 Oct. 1947 - agreement with State F&W Dept. - Dept. would
 provide \$5000 per yr. and 2 men.
- 1948 - Distrib. 776,782 fish - 9,358⁺ 189,008 in Park - 587,774 State w/ale
 N Fork - Swan L. & Swan tributaries. Conversion - meat - 5.0
 Handled blackspotted from Somers - sb from Libby - sb - l. tr. ^{Manitoba} from
 Rb were first since the war - reed eggs from Hagerman, Manchester &
 Aree, Bourbon, Mo.
 Extended agreement with State F&W for 1948
 Stocked Spoon L. following what by State with 30,000 1 1/2"
 blackspotted.

1949 - Same species as 1948. Blackspotted from YNP - rb from Bourton, b
eb from Libby & Wash. State - machine from Minnesota.

Distrib eb and rb on Rocky Bay Reservation.

Modified agreement with State F&H. - furnished \$500 per year

1950 - Blackspotted from YNP - planted and 462,000 - rb eggs, 66,439 from
Manchester, Ia. 89,937 from Bourton, Mo. - eb eggs 37,126 from
Arlee and Wash. State - ltr, 17,966 from Sask. - DV 59,410 possible
Thought DV would reduce rough fish pop. - eggs from Libby Sta
\$500 from State F&H. Dept.

1951 - New policy of State F&H. Dept. to limit rb plants to areas where
they would not intermingle with blackspotted.

No. DV eggs rec'd this yr.

Stefannik appointed birl. by State F&H.

\$500 agreement extended.

Blackspotted from YNP - Somers - Brood - eb from Arlee and Berlin, N.H. -
rb from Manchester, Ia. and Anaconda - ltr from Manitoba -
Rok from Flathead.

1952 - 1,750,000 blackspotted, YNP Somers - Brood - 46,000 eb - Arlee, Berlin!
rb from Manchester - State - wild fish - ltr from Manitoba - 2278 DV Som
Helped state on Flathead kok 509,796 - sent to Nevada.

\$500 again from State F&H.

1953 - 263,590 rb, Ana. Manchester, Winthrop Wm, Somers - 303,918 cl YNP
and brood - 49,648 eb, Berlin N.H.

Stefannik and Echo helped obtain 99 wild cl. for brood from Hungate
Shipped cl eggs to Boz. and Ennis.

Discontinued DV

\$500 from State F&H.

1955 - cb from Ana, Roman, Winthrop Wn, Bitterroot - cb from Berlin Wn
ck nos. down, YNP eggs no longer available, brood not of
good quality.

Demand for cb down, committed for about 40,000.

Pt up - good quality eggs from Winthrop Wn.

Unknown disease a problem in ck.

Had ripe females in Hungry Horse ck, no males.

Recd 5000 from State.

Station name changed to Creston Mont Fish Cult. Sta.

Bear Facts and Fish Tales

C.K. Phinzie reported latter part of June 1947.

Nov. 1947 - \$20,718.45 improvements at Emegiant.

85,000.00 Arlee Fish Hatchery.

Cold storage plant at Anaconda

discussed pulp mill problems on Flathead

Dec. 1947 - First internal fish tags - 255 - 9" rb at Chino.

Jan. 1948 - C.K. Patton sent to West Coast to check fish screen installations
Trail losses in Jocks Ditch near Ravalli - 186 - Av. 9" - 0.2 mi
Collected nearly 3 million LL eggs.

Feb. 1948 - Arranged for 50,000 SS eggs from Wash. State.

Planned coop. study on Ft. Peck Res. - MRBS - MSC - F&G.

Mar. 1948 - Planned rearing ponds for Fresno L. near Havre.

MSC, B.O. offered office and lab space to fisheries biol. -

Comm. felt he should remain in Helena.
Creel census pushed.

May 1948 - Arlee work completed.

Considerable fish tagging and fin clipping studies.
To get pike eggs from Minn. - to hatch at McNeil

Discussed rearing ponds near Manhattan

Authorized planning for Bluewater Hatchery.

June 1948 - Flooding at Arlee Hatchery.

Clearwater fish trap below Salmon L. washed out.
Water high at ore traps.

Chas Bishop and Ray Hayes inv. control of U. chubs at Hebgen L.
Fish survey crews in the field.

July 1948 - 500 from Cascade sportsmen toward study on Missouri Riv
2 million grayling eggs from Flinn Cr.

Removal of fish ladder at Thompson Falls authorized.

Summed research people and hatcheries at Cross purposes.

Authorized call for bids for Bluewater Hatchery

Exp. feeding of cooked carp at hatcheries - carp from Nelson Res.

Sept. 1948 - Spoon & poisoned to remove rough fish.

Dec. 1948 - Ura Gabrielson to examine Dept.

Inquiries on comm. fishing on Ft. Peck Res.

Hatchery conversions 4 to 7.

Jan. 1949 - Requests for fish screens on Fishburn
1 1/2 million rb eggs at Arlee

June 1949 - Arranging for N. line for eastern ponds on rec. of John Cook
July 1949 - Packer Res. Cr. survey crew

Oct. 1949 —

Vern Campbell to Bluewater .

Jan. 1950 —

Chi Melton first successfully hatched and
wt eggs.

500,000 DV eggs to Idaho.

Feb. 1950 —

Using cooked carp for fish feed.

Dec. 1952 —

Silver Salmon eggs to be obtained from Wash.

Jan 1954 —

Prelim. planning authorized on Beaver Cr. near
Havre.

RECEIVED
APR 14 1967
FISHERIES DIVISION

D.A.Hanzel

April 12, 1967

Don L. Brown by John T. Cox

White River Cutthroat (For the record)

On July 10, 1964, I received from you the eggs from one pair of cutthroat from the above mentioned source. You had brought these eggs in late in the evening.

We incubated the eggs in the small individual one quart jars in order to keep them segregated from all other eggs and fish in the hatchery, you brought in a total of 226 green eggs.

On August 5, 1964, I counted out a ~~total~~ total of 101 fry from these eggs, and on August 11, moved the fry at the Swimup stage to a small glass Aquarium and started them on feed.

As soon as they were large enough probably about 1 1/2 inches long they were placed in the large wall aquarium and where they have been kept since. At this date they range in size from six to ten inches in length. They have never had any symptoms of any disease, and have been kept entirely in Spring water, have had no special care.

Altho no actual count has been made of the numbers of fish on hand but if loss records have been kept up we should have about 74 of them ~~xx~~ at present.

It is expected that we will take a few eggs from these fish this season, probably in May or early June

cc Bob Schumacher
Wm Alvord
D.L.Brown

John T. Cox

STATE OF MONTANA
DEPARTMENT OF FISH AND GAME
HELENA, MONTANA

RECEIVED
JAN 31 1969
FISHERIES DIVISION

Office Memorandum

TO : Wm. Alverd, Supt of Fisheries
FROM : John T. Cox, Supt. Somers Hatchery
SUBJECT: Lake Trout Plantings in Montana

DATE: January, 17, 1969

As per your telephone request that I check the files here to see if I could find out anything about the early plantings of Lake Trout in Montana I have gone over the old correspondence starting with the building of the Somers Hatchery in 1912 up through the years to 1931, With not finding too much on them.

I have a strong suspicion that the first plantings of this Specie was made by the old Federal Bureau of Fisheries from the Bozeman Station.

The following is what I have found in the records here at Somers, Mostly from old correspondence.

October, 27, 1913: H.D. Dean reports catching "Mackinaw" in St. Marys Lake and had sent specimen of them and Whitefish to the U.S. Commissioner in Washington D.C. for further identification of them.

Letters received from the Commissioner under dates of June 4, 1914 July 9, 1914 and Sept., 12, 1914 relates to the identity of the above fish and that they were Lake Trout or Mackinaw.

Nov. 11, 1913 Letter from Dean to Thompson at Bozeman Concerning the planting of Lake Trout.

Nov. 11, 1913 Letter from Thompson to Dean Stating that the U.S. Commissioner had authorized the delivery to the Montana Commission one carload of Lake trout. (car refers to the Bureau of Fisheries Railroad stocking car.)

March, 5, 1914 Letter to C.Z. Southard, Brooklyn, N.Y. from Dean, Reports that Lake Trout are to be found in Elk Lake (Beaverhead County) and also St. Marys Lake (Glacier Park) (note my own, Does not mention that they have been introduced in the manner that the Brown and Brook trout have been.)

October 24, 1914, Another letter from Thompson at Bozeman to Dean concerning the planting of Lake Trout in Northern Montana, and that they have about fifty cans of them available.

Nov., 2, 1914 Letter from Dean to Thompson in reply to the above letter.

Nov., 5, 1914 Letter from Thompson to Dean on above shipment of fish.

Nov., 11, 1914 Letter to Thompson from Dean saying when he (Dean) will pick up the Lake Trout.

Dec., 21, 1914 Letter to Mathewson, Commission Chairman from Dean, Stating 40 cans of Lake Trout received from Bozeman, 20 cans for Hauser Lake at Helena the other 20 cans left at Glacier Park Station for lakes in the Park. (Does not say what lakes and were delivered by RR fish car.

Feb., 28 1922 Two cases of Lake Trout eggs were received at the Somers hatchery from U.S. Fisheries Station, Duluth, Minn. Notice of shipment. Eggs arrived Feb. 24, 1922, (No mention as to the number of eggs in shipment).

Log Book Feb., 24, 1922 100,000 Lake Trout eggs received from Duluth, Minn.
 April 20, 1922 Letter from Brunson (Mont, Supt. of Hatcheries.) to E.O. Johnson, (Foreman Somers Hatchery) "if the Lake Trout are as you state them to be, Then for the love of Mike, Plant the whole mess" " you need not make a public affair of it, but plant them in the Lake immediately"
 (Quote from a letter)

January, 17, 1923, U.S. Fisheries Station, Duluth Minn. (letter from)
 Have instructions to ship to Somers Hatchery 50,000 eyed Lake Trout eggs.

April 19, 1923 reply to the above letter acknowledging receipt of above letter.

February 19, 1923 Log Book: Received 50,000 Lake Trout eggs from Duluth, Minnesota.

April, 7, 1923 Log Book: Planted Lake Trout Today. (Does not say where.)

In going through the planting record book the only plant that I could find was one made by John Sheehan in Whitefish Lake, August 7, 1912 the amount was 40,000 Lake Trout.

The permanent Planting record book does not go further back than 1931.

7/22/71

Rod McCrae - Philipsburg Sheriff's Office 859-35

Helped Geo. Congdon ^{discuss} spawn fish at site on Congdon Cr. trib to Ross Fork near Medicine Lake 4N-17W-2. Prior to 1930. Congdon had several mining claims in the area. Put in a small dam, caught fish and spawned them. Had around 50 trays. Hatched fish went into pond then into the stream and the lake. Were all native. Were some grayling present. Let people fish. Apparently no objection to Congdon's operation until he started to sell fish. Remains of old cabin still at the site.

7/13/71

Call from Dr. C. J. D. Brown

Reported there was an old private hatchery on Medicine Cr. near Medicine L. in the Pintlar area. Access by way of Skaskaho road then south to Medicine L. Dr. Brown had talked to Mr. George Congdon about the hatchery - Congdon said that Rod McLean at Philipsburg had more detailed information on the old hatchery.

Dr. Brown also mentioned an old private hatchery on Fichtel Cr.