

**FORT PECK HATCHERY
INFORMATIONAL PAPER
QUESTION AND ANSWER**

Several questions have been asked regarding the Fort Peck Hatchery design and final layout of the hatchery. In the following question and answer format, we hope to provide factual information to all. After a complete review of these issues and facts, there may be those that still have concerns that have not been addressed. In that case, we would be glad to address them in an appropriate forum and at the appropriate time.

To assure a consistent understanding of all the issues, we have summarized a brief history of the project, the processes involved, the objectives of the Fort Peck Fish Hatchery, and what needs to occur before the hatchery is operational.

HISTORY FROM HB20 TO PRESENT

House Bill 20, passed in 1999, authorized a Warm Water Sport Fish surcharge and a multi-species hatchery for Montana, to be located at Fort Peck. Since 1999 with the input and cooperation of many groups and individuals, federal authorization was passed to build a \$20 million dollar Fort Peck Hatchery. Federal money was based on a 75% federal 25% state cost share. The State's share was based on the Federal Government crediting the state of Montana with \$11.9 million that FWP and eastern Montana counties spent on Fisheries management and access development to Fort Peck Lake since 1947.

The Army Corps of Engineers' (COE) and FW&Ps' mission was to design and engineer a hatchery that met the needs of the public of Montana and the needs of FW&P, that would produce multi-species as identified in both federal and state legislative bills, and would not cost more than \$20 million dollars. The Army Corps of Engineers began the design and engineering process on January 27, 2002 for the Intake Structure and Pump House contract, and May 13, 2002 for the Rearing Ponds and Hatchery Complex contract package. They were able to advertise the Intake Structure and Pump House contract in May 2002 and construction started in July 2002. The rearing ponds and hatchery complex package completed final design in February 2003, and the COE hopes to advertise for construction in March 2003. This process was completed in 10 months. In any other situation the process that took 10 months could have taken as long as 24 months.

Federal appropriations have to date equaled \$7.5 million dollars. The water intake structure is being constructed and the bids for the Rearing Ponds and Hatchery Complex package will be requested in March 2003. A time line to a fully operational facility is dependant upon several factors; the bid prices, federal appropriation for additional \$12.5 million dollars, and the amount of time needed to construct the facility. Both the COE and FW&Ps anticipate that by 2005 the Fort Peck Hatchery will be producing fish.

Q. Who is planning and constructing the facility?

A. The Great District of the COE has designed the hatchery and will be advertising this spring for bids to build the facility.

Q. Who will operate the hatchery?

A. If the hatchery is built to the current specifications, Montana Fish, Wildlife & Parks will operate and maintain the facility. The department currently operates 9 hatcheries.

Q. When will construction on the hatchery begin? How long will it take to complete?

A. Ground was broken for the water intake structures on July 6, 2002, and is expected to be completed by August 2003. Construction of the ponds and building will begin in late summer of 2003 if the bids come in within budget. It is anticipated that the hatchery will be fully operational in 2005, though the level of appropriation from Congress in 2004 and 2005 will determine this.

Q. What is the capacity of the hatchery, in terms of numbers of fish produced? Will that be enough fish to stock Fort Peck Lake? How about other waters in Montana?

A. As specified in the preliminary feasibility study, the facility has the ability to produce: 2.5 million walleye fingerling, 50 million walleye fry, 500,000 sauger fingerling, 2.5 million sauger fry, 200,000 chinook salmon, as well as tiger muskie, northern pike, large and small mouth bass, channel catfish, forage fish, and pallid sturgeon for state-wide needs.

To put this in perspective, the Fort Peck Fisheries Management Plan calls for stocking 3.5 million to 4.5 million walleye fingerlings yearly and stocking approximately 200,000 chinook salmon. The Fort Peck Hatchery, along with the Miles City Hatchery, will produce enough fish for Fort Peck Lake and other waters into the foreseeable future. However, it's difficult to predict the type of species and their numbers that might be required to satisfy fisheries over the next 50 or more years.

Q. Will trout be produced at this hatchery?

A. No trout will be produced for stocking purposes. The authorizing legislation, HB20, specifies which species may be reared at the hatchery and how the hatchery design, construction and operations and maintenance are to be funded. HB20 does not provide for trout production using the only state funds for operations, which come from the Warm Water Game Fish surcharge (stamp revenues).

RECEIVED MAY 19 2008



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
106 SOUTH 15TH STREET
OMAHA NE 68102-1618

REPLY TO
ATTENTION OF

May 15, 2008

Design Branch

Mr. Craig R. Buehler
Craig R. Buehler Law Office
505 West Main Street, Suite 210
Lewistown, Montana 59457

Dear Mr. Buehler:

Thank you for your letter dated April 28, 2008 regarding the Fort Peck Fish Hatchery. You raised a number of questions which I will attempt to address within the following paragraphs:

Who was responsible for the design of the facility?

The design for the Fort Peck Fish Hatchery was a combined effort between the Corps of Engineers; Montana Department of Fish, Wildlife and Parks; U.S. Fish and Wildlife Service; Citizens for a Fort Peck Fish Hatchery; and the Montana Chapter of Walleyes Unlimited. The Omaha District Corps of Engineers retains the Designer of Record designation for this project. Extensive collaboration resulted in the facility that was constructed at this site. ~~As the end user, the Montana Department of Fish, Wildlife and Parks retained direct control over the design content, and provided direction to the design process throughout the process.~~ The design was broken into multiple packages. Initially, the Project Delivery Team (PDT) met at a design charrette to flesh out the needs and requirements of the end product. Following the charrette, a design package for the Intake Structure and Pumphouse was developed. This project was broken into 35% design, Final Design, and Ready to Advertise (RTA) phases, with customer reviews occurring at all stages. The second design package, entitled the Rearing Ponds and Hatchery Complex, also followed a similar design path which culminated in the RTA package. Additionally, the design underwent rigorous Quality Assurance steps to ensure that the design intent and process functionality established by the PDT was met. It is unfair to assert that the State of Montana or other parties wanted an "\$8-million dollar facility" when they were partners throughout the entire process.

*Between MFL
and the
Corps.*

Is process documentation outlining the creation of the design process available?

~~As would be expected of all \$21.7-million dollar programs,~~ a monumental amount of paperwork was generated during the execution of the various project phases. If specific documentation is desired, please contact Ms. Linda Burke with our Office of Counsel at 402-995-2603 to submit an information request through our Freedom of Information Act

3



Montana Fish, Wildlife & Parks

P.O. Box 200701 • Helena, MT 59620-0701

FAX COVER SHEET

Date sent: 1-16-02

pages including cover sheet: 3

To: MIKE RIDGES - MCH

Fax #: _____

Phone #: _____

From: GARY BERTELLOTTI, Division FISHERIES

Fax #: 406-444-4952

Phone #: 406-444-_____

Message: Mike -

A FLOOR PLAN FOR HATCH BUILDING

REVIEW MAKE COMMENT - CHANGE AS

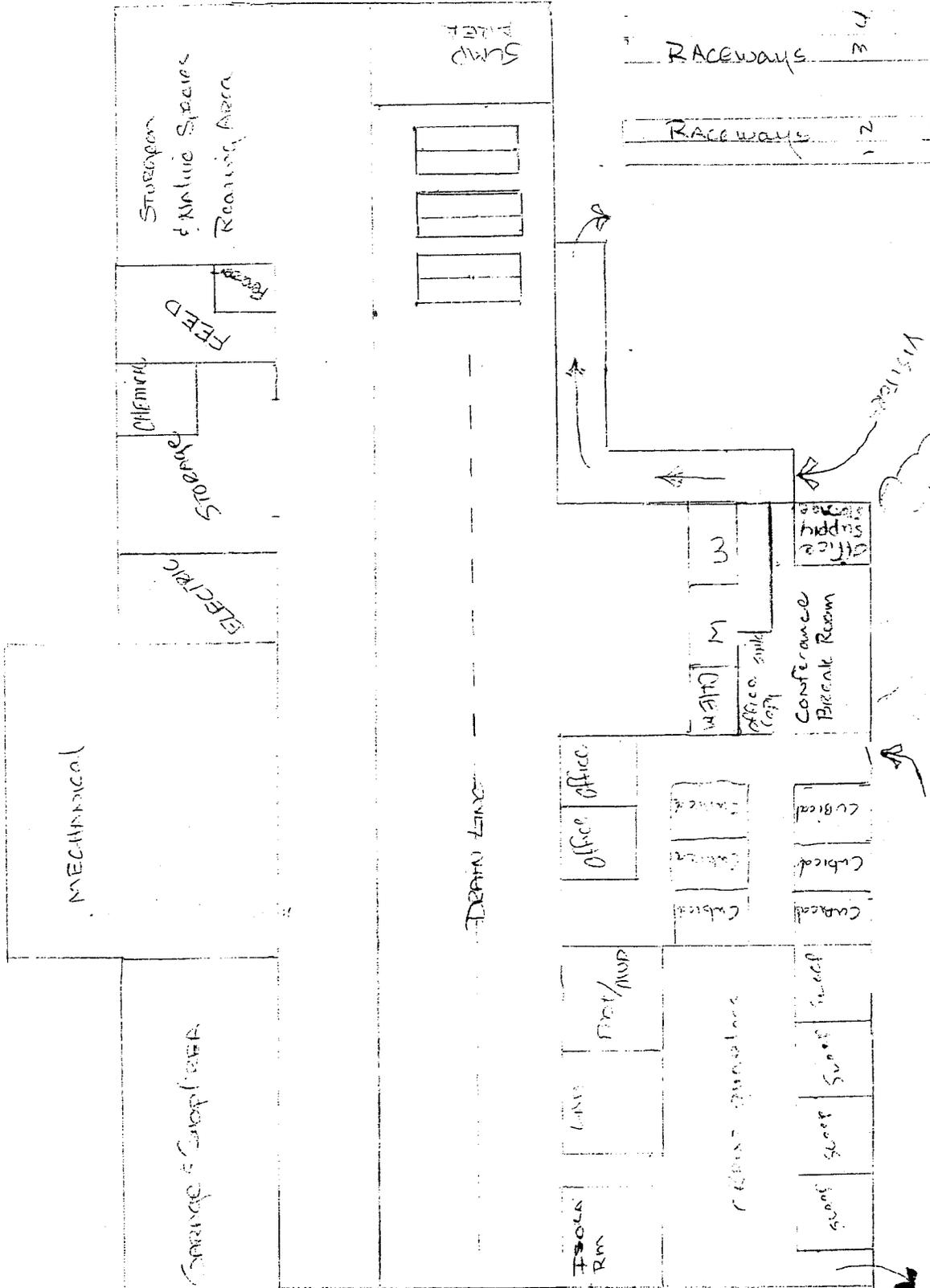
YOU FEEL FIT.

Louy

2 copies - for you to play w/



SCALE - 1" = 30'



Project Approach

A&F
Con.Ed
Enf
FS
Fish
Parks
Wild
Other: _____

The estimated total project cost for the hatchery facility is \$12,435,000.00 and the annual revenue projection of the new stamp is \$482,500.00. The Corp of Engineers has agreed in-principle to cost share 50% of the project. The total estimated operation and maintenance cost is \$287,000.00 based on information provided by the Montana Department of Fish, Wildlife and Parks.

If we assume a 5.5% loan with a 3% inflation factor on the operation and maintenance costs it would take a term of over 60 years to fund the entire project, which isn't practical.

A phased approach to the project would allow for expansion within a realistic time frame and allow for increased fish production by the year 2002. The first phase would be to construct the 40 rearing ponds. The Fish, Wildlife and Parks reports that approximately 36,000,000 fry are planted directly into Fort Peck currently and the success rate of this type of plant is almost zero. The reason they need to plant this size fish is a lack of rearing ponds at Miles City.

Once the rearing ponds at Fort Peck are constructed they can accept 6,000,000 of the fry currently produced at Miles City and raise them to fingerlings before they are released. This phase is estimated to cost \$7,720,000.00 and if we assume a 50% cost share by the COE, a 20 year term, 5.5% interest rate and an operation and maintenance cost of \$150,000.00 with a 3% inflation clause, at the end of the twenty-year term there would be a surplus of \$497,000.00 in the fund. The attached spreadsheet provides a yearly breakdown of costs.

Once the Phase I costs are paid off the facility could operate for several years with the stamp fee paying the operation and maintenance with the balance being set in reserve for Phase II. The second phase can be undertaken as soon as a funding package can be assembled. In the attached hand out we assumed that the fish stamp revenue will increase by 25% by 2021 and the hatchery phase of the project would start in 2030. The spreadsheet indicates how the funding would flow. The actual schedule for Phase II will be dependent on the completion of Phase I.

**ESTIMATE OF PROBABLE COSTS
FISH HATCHERY - FORT PECK**

January, 1999

A)	Total Project				
1)	Mobilization	1 LS	@	\$ 100,000.00 =	\$ 100,000.00
2)	Bonds and Insurance	1 LS	@	\$ 100,000.00 =	\$ 100,000.00
3)	Clearing and Grubbing	90 acres	@	\$ 1,000.00 =	\$ 90,000.00
4)	Topsoil Removal and Replacement	48,400 CY	@	\$ 5.00 =	\$ 242,000.00
5)	Embankment in place (pond liners)	72,500 CY	@	\$ 4.00 =	\$ 290,000.00
6)	Embankment in place (pond dikes)	320,000 CY	@	\$ 4.00 =	\$1,280,000.00
7)	Crushed base course (1 1/2" minus)	72,500 CY	@	\$ 4.00 =	\$ 290,000.00
8)	Rearing Pond HDPE Liner (60 mil)	40 each	@	\$ 15,000.00 =	\$ 600,000.00
9)	Pond Kettles	40 each	@	\$ 36,000.00 =	\$1,440,000.00
10)	12"-18" PVC Class 150	6,600 LF	@	\$ 35.00 =	\$ 231,000.00
11)	4"-10" PVC Class 160	9,000 LF	@	\$ 25.00 =	\$ 225,000.00
12)	Control Valves	45 each	@	\$ 3,000.00 =	\$ 135,000.00
13)	Rearing Pond access ramps	40 each	@	\$ 1,200.00 =	\$ 48,000.00
14)	Hatchery Building	1 LS	@	\$1,300,000.00 =	\$1,300,000.00
15)	Water Treatment/Heating System	1 LS	@	\$ 920,000.00 =	\$ 920,000.00
16)	Fencing	10,500 LF	@	\$ 10.00 =	\$ 105,000.00
17)	Sitework/Intake Structure	1 LS	@	\$ 250,000.00 =	\$ 250,000.00
18)	Equipment Allowance	1 LS	@	\$ 560,000.00 =	\$ 560,000.00
19)	Staff Residences	4 each	@	\$ 90,000.00 =	\$ 360,000.00
20)	Erosion Control	1 LS	@	\$ 10,000.00 =	\$ 10,000.00
21)	Valve Cathodic Protection	56 each	@	\$ 500.00 =	\$ 28,000.00
22)	Seeding and Fertilizing	20 acres	@	\$ 2,000.00 =	\$ 40,000.00
23)	Testing Laboratory Service	1 LS	@	\$ 25,000.00 =	\$ 25,000.00
24)	Vehicles	1 LS	@	\$ 175,000.00 =	\$ 175,000.00
25)	Visitor Center	1 LS	@	\$ 50,000.00 =	\$ 50,000.00
26)	Warehouse/Garage	1 LS	@	\$ 150,000.00 =	<u>\$ 150,000.00</u>
	TOTAL ESTIMATED BID				\$9,044,000.00
	CONTINGENCY				<u>\$ 904,000.00</u>
	TOTAL ESTIMATED CONSTRUCTION				\$9,948,000.00
	DESIGN ENGINEERING AND CONSTRUCTION ADMINISTRATION (25%)				<u>\$2,487,000.00</u>
	TOTAL PROJECT COST				\$12,435,000.00

BACKGROUND ON THE COST ESTIMATES AND THE PROPOSALS FOR THE FORT PECK HATCHERY HB 20

The cost estimate of \$14.6 million was based on the original proposal for the hatchery as presented by Representative Kitzenberg, Walleyes Unlimited, and their consultant, Interstate Engineering, Inc. It included:

- 1. 40 1.5 acre rearing ponds for walleye fingerling production.**
- 2. 8 raceways for chinook salmon production.**
- 3. Hatchery Building, residences, and shop.**
- 4. Water source development.**
- 5. Engineering, design, and administration.**

Cost estimates for the above proposal were prepared by MFWP's Design & Construction Division, Fisheries Hatchery Bureau, and using a comparison of costs from current and recently completed MFWP hatchery construction projects. Discussion with Interstate Engineering Inc. was also used in determining a final estimate. These estimates are based on 1999 construction costs.



Montana Fish, Wildlife & Parks

MEMORANDUM

March 9, 1999

TO: Gary Bertellotti
FROM: Tom Hansen
RE: Fort Peck Multi Species Hatchery Proposals

At your request, I have prepared a cost estimate matrix associated with a Fort Peck Multi Species Hatchery option.
 I also prepared a time line associated for the project schedule if the State were to ask Congress to fund design.

The cost matrix is represented in Table 1.
 Tentative schedule for design and construction of the Fort Peck Multi Species Hatchery is as follows:

- April 1999 Montana Legislature approves project and requests funding from Congress to construct new hatchery at Fort Peck Reservoir.
- July 1999 Request for \$587,500 forwarded to Congress through Montana's Congressional Delegation to cover:
 - * Preliminary & feasibility investigation report \$235,000
 - * Planning studies \$235,000
 - * Special services for construction projects planning \$117,500
- October 1999 Congress approves funding for conceptual design, planning and investigation. \$587,500

FORT PECK MULTI SPECIES HATCHERY

Several options exist to develop a multi species fish hatchery in the Fort Peck area in cooperation with the U.S. Army Corp of Engineers. Addition of this hatchery to Montana Fish, Wildlife and Parks' fisheries program is in response to current future needs for fish due to demands on Montana's fisheries resources. The hatchery will provide rearing space and facilities for salmonid fish, warm water fish, and species of special concern.

ORIGINAL PROPOSAL: This proposal is basically what was proposed in 1983 and built in Miles City, it would consist of the following; 1) Full size raceways and hatchery building to provide essential facilities for egg incubation and early life stage rearing; 2) 40 each - 1½ acre ponds for warm water fish fingerling production; 3) 10 each - 75 feet long rearing/production raceways.

ALTERNATE PROPOSAL: This would consist of the following; 1) Reduced size raceways and hatchery building to provide essential facilities for egg incubation and early life stage rearing; 2) 10 each - 1½ acre ponds for warm water fish fingerling production; 3) 10 each - 75 feet long rearing/production raceways.

Cost estimates for both options, shown in TABLE 1 below, are based on engineer's estimates prepared for similar construction of a salmonid hatchery at the Department's Bluewater Springs Hatchery and for similar pond construction at the Department's Miles City Warm Water Hatchery.

TABLE 1
ESTIMATED COSTS FOR A
FORT PECK MULTI SPECIES HATCHERY

FACILITY/COMPONENT OF CONSTRUCTION	ESTIMATED COST ORIGINAL	ESTIMATED COST ALTERNATE
HATCHERY BUILDING Machinery / Electrical / Plumbing Heating / Cooling / boiler Tanks, etc. Building CMU Type Cold Storage / Freezer / Office Public Rest Rooms Visitor Area and Display Basic Equipment Isolation Areas	\$1,675,000	\$1,333,000
CONSTRUCT - 1½ ACRE PONDS Pond Formation / Grading Dikes / Liners Roadway / Kettles Valving / Plumbing	\$7,120,000	\$2,000,000
	40 EACH	10 EACH
STORAGE & SHOP BUILDING	\$200,000	\$200,000
WATER SOURCE DEVELOPMENT. From Source to Ponds Includes Source Development Adequate for Expansion	\$950,000	\$950,000
WATER DELIVERY SYSTEM Piping, Valves, Pumps, Packed Columns		
ROADS AND PARKING	\$50,000	\$50,000
VEHICLES	\$175,000	\$80,000
	2 - Pickups	1 - Pickups
	2- Distribution	1- Distribution
	1 - Tractor	1 - Tractor

PRODUCTION/ REARING RACEWAYS (10 Each by 75 Feet Long)	\$950,000	\$950,000
FENCE	\$100,000	\$85,000
UTILITY DEVELOPMENT	\$10,000	\$10,000
DOMESTIC WATER	\$10,000	\$10,000
DOMESTIC SEWER	\$10,000	\$10,000
HOUSES	\$500,000 4 Houses	\$180,000 2 Houses
CONSTRUCTION COST (estimate)	\$11,750,000	\$5,858,000
ENGINEERING (@25% of Estimated Construction Cost) INCLUDES: Planning, Design, Inspection, Administration, Permitting, Water Right Applications, EA's... etc.	\$2,937,500	\$1,465,500
TOTAL W/OUT INFLATION	\$14,687,500	\$7,322,500
TOTAL WITH INFLATION (@ 112.5% Of Total Cost) - Assumes a continued 3% Inflation over the next 4 year period	\$16,524,000	\$8,245,000

FTPCK306.WPD

 <p>Department of Transportation Washington, D.C. 20590</p>	ROUTE SLIP	DATE: 6-18-99
TO: <i>Larry</i>		
FROM: <i>Gregory</i>		
SUBJECT: <i>Ft Peck Proposal</i>		
ACTION		
<input checked="" type="checkbox"/> For your information and action <input type="checkbox"/> For your information and file <input type="checkbox"/> For your information, initial & return <input type="checkbox"/> Reply to this communication and file <input type="checkbox"/> Wish to discuss this matter with you <input type="checkbox"/> Return to _____	<input type="checkbox"/> Prepared suggested reply for <input type="checkbox"/> Director's Signature <input type="checkbox"/> Governor's Signature <input type="checkbox"/> For your approval <input type="checkbox"/> Signature <input type="checkbox"/> Per your request	
COMMENTS: <i>If you see anything that Needs changing let me know I Highlighted Major pts. Larry</i>		

Form #621.3 5/94

14A

**PRELIMINARY PROJECT PROGRAM
FORT PECK HATCHERY
FWP 99-34/A&E #
MT. DEPT OF FISH, WILDLIFE & PARKS
FORT PECK, MONTANA**

1. **INTRODUCTION**

This project is legislatively mandated as described in House Bill 20 (HB20). This project is to establish a new multi species fish hatchery near Fort Peck, Montana. This multi species hatchery will be in addition to the existing nine state fish hatcheries that Montana Fish, Wildlife and Parks now operates.

The concept for this hatchery has been around since the mid 1980's. Community leaders of Glasgow, Walleyes Unlimited, and public input from many communities throughout Montana were the driving forces behind HB20. The MFWP sees potential benefit for state wide fisheries programs, added benefit to the hatchery program, and ultimately a benefit to the citizens around the state. Fish produced at this proposed hatchery will allow MFWP to fulfill the objectives of the state wide 1997 - 2006 Warm Water Fisheries Management Plan.

Funding for Phase I engineering services which include but is not limited to, a feasibility study, preliminary engineering and special engineering services required for construction planning for the new hatchery, will be dependant upon receipt of Federal funding. Construction, operation and maintenance costs for the new hatchery ~~and~~ are anticipated to be on a cost share basis between MFWP and the U.S. Army Corp of Engineers. A request has been made through Senator Max Baucus for federal funds (\$590,000) for the Phase I study.

Once the Phase I engineering services have been completed and a preliminary cost estimate made for the design, construction, operations, and maintenance of the new hatchery; a request for federal funds will be forwarded to Montana's congressional delegation.

Hatchery Facility Objective: Construction of a multi-species fish hatchery facility at the Fort Peck Reservoir, which will be able to meet the following production goals:

- a. Produce 1,000,000 walleye fingerlings (1.2" - 2" long)
- b. Produce 10,000 advanced walleye fingerlings (>2" long)
- c. Produce 350,000 fall Chinook salmon smolts (3" - 4" long)
- d. Produce sauger, yellow perch, crappie, northern pike, muskie, small and large mouth bass, cisco, and possibly other fish species deemed as appropriate such as ~~sturgeon~~ and ~~paddlefish~~.

pallid sturgeon.



Montana Fish, Wildlife & Parks

FISHERIES DIVISION
1420 EAST 6th AVE.
HELENA, MT 59620-0701

December 9, 1999

USACOE
CENWO-PM-AE
Randy Sellers
215 North 17th Street
Omaha, NE 68102

Dear Randy:

Enclosed is the plans the state is using for the houses for hatchery employees on our other facilities. I have also included a basic floor plan for a hatchery building. While looking at our cost for several other hatchery projects around the state I found that it was much more cost effective and more operationally efficient to have all our needs in one building. Instead of having a shop, storage building, hatchery building, etc in separate building with separate utilities, etc. incorporating of all of these into one building works better. This is just a suggested floor plan and I am sure your engineers will have good suggestions on improving it (This is just one idea).

Feel free to go in other directions if it looks like you can be more effective from an engineering perspective. I am working on the fish numbers to determine if there are any changes to what I originally sent, but the number I supplied you with before should be really close to what we need. The need to supply a constant warm water supply (45+) for bass brood (4 year classes - 350 bass would be needed to) over winter, this was not in the original information I sent you.

Based on a preliminary survey of our fish managers here is a run down of the changes from the original numbers:

NEEDED PRODUCTION FROM FORT PECK HATCHERY

<u>Species</u>	<u>Additional Annual Needs for the Future</u>
Walleye fingerlings (2"+)	(2,500,000 within 10 years - increasing on annual basis 2000 and beyond) 2,500,000
Walleye fry	30 to 50,000,000
Sauger fingerling (2"+)	Up to 500,000
Sauger fry	1 to 2,500,000

15

Tiger Muskie (6"+)	5,000
Tiger Muskie (2"+)	25,000 to 50,000
Norther Pike Fry	Up to 150,000
Norther Pike Fingerling (2"+)	10,000
Channel Catfish (8"+)	40,000
Channel Catfish (2"+)	15,000
Chinook Salmon (3"+)	500,000

Brood Large Mouth Bass have to be kept on station.

Brood - Several Age Classes That are mature and would spawn (4, 5, 6, 7, 8 years of age) would have to hold 0, 1, 2, 3, 4, 5, 6, 7, 8, year classes to produce the number of bass needed.

Age class	1	6,500
	2	1,250
	3	1,000
	4	800
	5	500
	6	250
	7	200
	8	200

Large Mouth Bass Production (2"+)	70,000
Large Mouth Bass (6"+)	10,000

Brood Small Mouth Bass

	1	5,000
	2	2,500
	3	2,000
	4	1,500
	5	1,000
	6	800
	7	500
Small Mouth Bass (2"+)		25,000
Small Mouth Bass (5"+)		10,000

Sturgeon	Unknown
Other Species of Concern (ESA)	Unknown

To create the large fish - longer than 3" (Bass, Tiger Muskie, Norther Pike, Sauger, Walleye, And Catfish) we need to develop a forage fish stock that can be reared all year round. Fathead Minnows, bluegill, crappie, rainbow trout, or something else. These would have to be large numbers and easily harvested to feed to our fish to be stocked out. I can not even guess at the

numbers or design of rearing facilities for prey species.

At this point our other hatcheries are in need of expansion. Due to expanded needs in trout species recovery (bull trout, west slope cutthroat, Yellowstone cutthroat, brook trout) and space for sport fish restoration and event migration has been reduced and demands for rainbow trout, kokanee, brown trout, and Kamalloop rainbow are increasing due to increased demand from urban fisheries programs and increased pressure due to whirling disease, increased development, and increase in human population. We are now exceeding hatchery production capacity and have put \$10,000,000 dollars into hatchery renovations and water source development and security since 1997. All this to produce at our optimum level to meet state wide request for salmonids.

This is the reason I feel that we (MFWP - COE - Eastern Montana) would all benefit in the use of a part of this facility for trout production. The cost for raceways is minor when looking at the need, benefit, and the total cost of this size project. It is rare to find this quality and quantity of water in one place.

Future needs for trout production - 2000 to 2005 (beyond current production capacity)

Rainbow Trout	2" - 4"	500,000
	5" - 8"	200,000
	8"+	100,000
Kokanee	3"	1,000,000
Kamalloop Rainbow	4"+	200,000

If we were able to produce rainbow trout in the raceways used by salmon we could put the raceways to use 12 month out of the year and not increase the number of raceways needed. This would also shift use of rearing space from other state run facilities from rainbow to kokanee or different size or strains of rainbow.

Any other questions feel free to call, e-mail, or write.
1-406-444-2447
gbertellotti@mt.gov or gbertellotti@state.mt.us

Sincerely



Gary Bertellotti
Hatchery Bureau Chief



Mark G. Gault

**Montana Fish,
Wildlife & Parks**
FISHERIES
1420 E. 6TH AVENUE
HELENA, MT 59620

MEMORANDUM

DATE: April 16, 2001

TO: All Hatchery Personnel

FROM: Gary Bertellotti *Gary*

SUBJECT: Assessment of Hatchery System and Request for Suggestions for Improvement

Over the past couple years I have attempted to meet the needs of the hatchery system through promoting several projects, streamlining some of our old practices, fighting for additional funding, encouraging the completion of projects that have had the funding but no work had been done for years, and have attempted to provide the hatchery system the needed tools to make your jobs more efficient.

When I started this position I found a group of hatchery folks that work extremely well together, provided a quality product, and met the fisheries needs throughout the state. This was a result of a dedicated hatchery staff that knew the system, worked as a well-trained team, and did everything it took to meet the request of the biologist and managers around the state.

Over the past few years the demands on the hatchery system have reached a critical mass. We have all seen this coming and have rallied to keep the hatchery system producing the numbers and sizes of fish that are needed. There have been times when we have pushed limits that probably exceeded our resources and manpower, but you have all worked through these difficult situations with few if any complaints.

I have attempted to provide the funding and flexibility for all the hatcheries to equip them with the tools they need. I plan on continuing this, but will need everyone to provide input and ideas for present and for future needs. If the need is for something that would require additional man power, substantial funding, or drastic change to the system, we need to identify them now, knowing that it may take 2 years to get funding. To keep the hatchery system ahead of the demand curve, it is important to keep ahead of any potential problems or changes we may foresee.

Respond by July 1

18

HATCHERY SYSTEM EVALUATION 2001

FUTURE POTENTIAL PROJECTS

1. Rose Creek Hatchery Development:

- A. 2003 - facility with building and tanks to provide 3000 cubic feet of rearing space.
- B. Isolation facility for incubation of eggs from individual crosses (up to 50 pairings) and or incubation space for 10 Eagar jar.
- C. Secured discharge to prevent escapement.

COMMENTS:

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}

perhaps BPA purchase rights for future

Upstream from Rose Creek is another spring. It used to be called "siderius slough" and emptied into the bottom end of Bronson's slough. ^(2. disspell) The state had a chance at it, but chose not to and if I remember, it had 5000 - 6000 gpm with a crude measurement. Another heated spring source is

2. Brood Stocks - Genetics, use of, supplementation of wild broods.

- A. 2001 McBride Yellowstone Gametes from McBride Lake Yellowstone Park. *Hunter Hot Springs, springs, bass etc.*
- B. New Gametes (200?) westslope cutthroat gametes Anaconda Hatchery?
- C. Kamloop Brood Stock at Murray Springs - where to go? Keep existing stock, get out of the kamloop brood program all together, attempt to get Canada genetics, what, where when?
- D. Grayling brood stock from Red Rocks additional locations for brood. LaBlanc Crystal Lakes and hatchery participation.
- E. Large mouth bass brood - cost effectiveness to keep brood.
- F. What else.

COMMENTS:

19

A.) We should find a lake outside of Yellowstone Park in the wilderness; make sure there are no other fish, and stock it exclusively with YCT to avoid the constant bureaucratic red tape.

C.) We should get out of Kamloops program. We're wasting too much space/resources for 1 individual and a few lakes (for a nowtime).

E.) Get out of Bass brood program; the cost vs benefit is not in our favor. If we need heated H₂O, consider

6. Fort Peck Hatchery

- A. How can this facility help salmonid hatcheries.
- B. Design hasn't happened, Can we implement salmonid rearing that doesn't impact Warm water fish program and that is acceptable to Public.

Comments: I think the public will be receptive to salmonid rearing if it goes into Fort Peck. We'll never satisfy walleyes Unlimited. ~~It~~ walleyes won't occupy all the hatchery space all the time and if we start educating them, the better ^{the} chances of the idea being received.

7. Water Supplies at Some Hatcheries Need Improvement:

- A. Priority based on need and urgency and ability to get water:
Bluewater, Jocko River, Somers, Murray Springs, Big Timber.
- B. At what cost - pumping vs. gravity. Utility cost.
- C. Other options?

Comments: To improve Big Timbers H₂O supply the field should be dug up and installed properly with washed gravel the right size and shielded from sediment. The field should also be enclosed by either a metal or bentonite wall from the cistern to Flowagers fence line, up to the rock wall and back. (See BACK side.)

8. Effluent Systems - Meeting EPA Requirements and State Permitting.

- A. Expensive but necessary.
- B. Who needs what?

Comments: We need them at all hatcheries before we get lined. The design of a ~~settling~~^{settling} pond should involve a liner at the bottom so when it does fill in it can be vacuumed out properly. If it doesn't then the person's involved ^{don't} know where to stop. Also, how do we dispose of vacuumed fish pup?



Montana Fish, Wildlife & Parks

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Ref: DO0178-03
March 20, 2003

The Honorable Conrad Burns
SD-187 Dirksen
Senate Office Building
Washington, DC 20510-2603

Dear Senator Burns:

Over the past several years the Fort Peck Hatchery has been an issue of great interest and importance to Montana sportsmen, communities, citizens, and to Montana Fish, Wildlife & Parks (FWP). The support and effort that you have provided in obtaining approval and appropriation for the Fort Peck Hatchery has been recognized and appreciated by your constituents. The initial \$1.5 million dollar appropriation for 2002 and the \$6.0 million dollars for 2003, have provided critical funding for design, engineering, actual groundbreaking and construction of the water intake structure and the initial construction of phase 2. Your continued support will provide the appropriations needed to complete the Fort Peck Hatchery, which will provide a much need economic benefit to Montana.

Based on information, planning, and expert advice from the Army Corp of Engineers (COE) and Fish Wildlife & Parks' Design and Engineering division, FWP would like to formally request your assistance and wisdom in obtaining full federal appropriation, directed to the GOE (Omaha District), for 2004, in the amount of \$12.5 million dollars. **This request, when approved, will be the final appropriation needed to meet the \$20 million dollar project cost.** FWP is requesting **your efforts** in obtaining this final appropriation so that the Fort Peck Hatchery will be operational by spring of 2005.

Your continued support and the \$12.5 million dollar appropriation will provide the resources to complete the Fort Peck Hatchery. This facility will provide the resources Fish, Wildlife & Parks needs to produce fish for Montana's sportsmen and provide for the economic stimulus Montana needs.

FWP is optimistic that your efforts in securing appropriations will be successful and that this important project will be finished. The sportsmen, communities, and Fish Wildlife & Parks are grateful for your hard work and look forward to the dedication of the Fort Peck Hatchery in 2005. If there is any assistance that my staff or I can provide, please contact my office.

Sincerely,

M. Jeff Hagener

M. Jeff Hagener
Director

21

APPENDIX A - Trip and Equipment Expenditures in Montana for 1996

Expenditure Item	Resident	Nonresident	Total
TRIP EXPENDITURES			
Food, Drink and Refreshments	\$12,865.685	\$31,433.670	\$44,299.355
Lodging	2,356.377	16,946.631	19,303.008
Public Transportation	96.414	48,358.884	48,455.298
Private Transportation	18,253.536	13,049.093	31,302.629
Boat Fuel	1,771.072	563.010	2,334.082
Guide Fees, Pack Trip or Package Fees	709.558	18,517.664	19,227.223
Public Land Use or Access Fees	265.307	219.827	485.134
Private Land Use or Access Fees	57.737	3.191	60.928
Boat Launching Fees	50.373	28.470	78.842
Boat Mooring, Storage, Maintenance and Insurance	674.668	120.153	794.821
Equipment Rental	316.469	1,157.370	1,473.839
Bait (live, cut, prepared)	1,570.704	1,089.712	2,660.416
Ice	970.810	628.114	1,598.924
Heating and Cooking Fuel	503.516	203.120	706.636
FISHING EQUIPMENT EXPENDITURES			
Rods, Reels, Poles, and Rod Making Components	5,050.613	2,413.079	7,463.692
Lines and Leaders	1,796.201	674.533	2,470.734
Artificial Lures, Flies, Baits and Dressing	3,228.991	2,051.262	5,280.253
Hooks, Sinkers, Swivels, etc.	1,404.160	326.569	1,730.729
Tackle Boxes	542.773	374.276	917.050
Creels, Stringers, Fish Bags, Landing Nets and Gaff Hooks	370.498	63.810	434.308
Minnnow Traps, Seines and Bait Containers	128.282	77.509	205.791
Depth Finders, Fish Finders, and Other	457.083	78.738	535.820
Electronic Fishing Devices	203.370	15.748	219.117
Ice Fishing Equipment	1,281.822	44,733	1,326,555
Other Fishing Equipment			
AUXILIARY PURCHASES FOR FISHING			
Camping Equipment	2,216.377	0	2,216.377
Binoculars, Field Glasses, Telescopes, etc.	0	0	0
Special Fishing Clothing, Foul Weather Gear, Boots, Waders, etc.	1,369.172	467.835	1,837.007
SPECIAL EQUIPMENT PURCHASED FOR FISHING			
Bass Boat	4,651.148	0	4,651.148
Other Motor Boat	0	2,834.554	2,834.554
Canoe or Other Non-Motor Boat	3,295.899	0	3,295.899
Boat Motor, Boat Trailer/Hitch or Other Boat Accessories	2,642.162	0	2,642.162
Pickup, Camper, Van, Travel or Tent Trailer	11,337.348	0	11,337.348
Motor Home, House Trailer	0	0	0
Cabin			
Trail Bike, Dune Buggy, 4x4 Vehicle, 4-Wheeler, Snowmobile	8,494.692	0	8,494.692
Other Special Equipment Including Ice Chest	124.524	0	124,524
OTHER EXPENDITURES			
Fishing License Fees	2,403.027	5,989.253	8,392.280
Other Fees	72.188	150.271	222,458
Owned or Leased Property	1,135.436	268.046	1,403,482
Processing and Taxidermy Costs	290.575	0	290,575
Books and Magazines	771.173	736.005	1,507,178
Dues or Contributions to Organizations	147.310	19.295	166,605
Other Purchases	497.091	222.259	719,350
STATE TOTALS	\$94,374.140	\$149,126,684	\$243,500,824