JOINT HOUSE-SENATE APPROPRIATIONS SUBCOMMITTEE ON NATURAL RESOURCES AND BUSINESS REGULATION - MINUTES February 8, 1983

The meeting was called to order by CHAIRMAN MANUEL at 8:18 a.m. in Room 132 of the Capitol Building, Helena, Montana.

ROLL CALL: MANUEL, HEMSTAD, STOBIE, SMITH, BOYLAN, LANE -

present

None - absent

Staff Present: DICK GILBERT, LFA; CAROLYN DOERING,

OBPP: and PATTI SCOTT, SECRETARY

DEPARTMENT OF FISH, WILDLIFE, AND PARKS (Tape #46 Side A-001)

WITNESSES for the Department were JIM FLYNN, Director; DAVE MOTT: and DICK JOHNSON.

CENTRALIZED SERVICES (EXHIBIT)

FTE's

MR. FLYNN stated they had transferred the Field Services Supervisors' Offices from Centralized Services to the Administration Budget. This amounts to 22.5 FTE's. This is included in the OBPP but not LFA. The primary reason was budget control. There was also \$735,000 FY84 and \$745,000 FY85 which transferred.

EQUIPMENT VEHICLE REVOLVING ACCOUNT (Tape #46 Side A-037)

MR. FLYNN stated for a few years, the Department has been trading-in their vehicles at 85,000 miles. Based on this policy, they are requesting 44 new vehicles in 1984 and 43 new vehicles in 1985. These would be replacement vehicles. The Department did investigate the possibility of leasing. The Department's total average cost for operating is approximately \$.27 cents a mile versus \$.31 a mile to lease. The LFA has recommended 29 fewer vehicles. The Department would have to drive the vehicles longer than 85,000 miles or reduce the expenditure level by reducing the mileage. The estimated amount of mileage that would be lost is 365,000 miles.

This budget also includes two snowmobile groomers. The snow-mobile program is paid for from the sale of decals and a fuel tax on snowmobile fuel.

MR. FLYNN is requesting the Committee accept the OBPP figures for equipment in Centralized Services.

CONTRACTED SERVICES

The Department is asking for \$600,000 Contract Authority. In 1982 the Department used the authority for 51 projects with an expenditure

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of \$494,899. If the Department did not have this authority, it would have been forced to go through the Budget Amendment process. As an example, MR. FLYNN cited a study the Federal government contracted with FWP to perform a study in the Flathead Basin. If the contract is \$50,000 or less, they can process it. If it is more than \$50,000, they must get a Budget Amendment.

CENTRALIZED SERVICES

MODIFICATIONS (Tape \$46 Side A-186 to 480)

Aircraft, Program Analyst, and a Purchasing Coordinator - this information is attached at the end of the minutes.

ECOLOGICAL SERVICES MODIFICATIONS (Tape #46 Side A-480 - end)

Elkhorn Wildlife Coordinator and Core Staff Financing - this information is attached at the end of the minutes.

(Tape #46 Side B-001)

There was a lengthy discussion on the reason there are so many studies. MR. FLYNN stated that with the continuing changes in the environment, i.e. new power plants, new dams, studies must be done to be sure the adverse effects on wildlife are kept at a minimum. Information must be gathered before decisions can be made.

ENFORCEMENT (Tape #46 Side B-048)

TRAVEL AND CONSERVATION OFFICERS

MR. FLYNN stated the 1981 Legislature established the Conservation Officer Program to increase enforcement of game laws by using non-enforcement personnel, primarily the biologists. FLYNN feels the program has been very successful. Increased law enforcement is available during peak periods at a minimal cost. Of the \$25,000 per year appropriated, approximately \$3,000 was allocated to each of the seven administrative regions for increased field travel. The remaining \$4,000 was used to sponsor an introductory Law Enforcement Training Program in Bozeman.

One hundred and five people participated in the Conservation Officer Program. They spent 5,006 hours in 1982, and drove 53,053 miles; made 5,058 field contacts; 27,219 check station contacts; made 596 fisherman contacts; 639 landowner contacts; totally wrote 86 citations; total sportsman contact 53,600. This relates to \$16,000 per year in the travel budget.

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REPRESENTATIVE STOBIE asked why these biologists didn't have travel in their other budgets. MR. FLYNN replied that in their role as Conservation Officers, they performed Law Enforcement duties. A little of the travel was done in their role as a Field Biologist.

(Tape #46 Side B-106)

MR. FLYNN stated that another problem in calculating travel was using FY1982 as the base year. Before the Special Session in 1981, there was a recommendation by the Legislative Fiscal Analyst to cut back the money allowed for travel to the departments. When setting the FY82 - FY83 budgets, the estimate for gas was high. The price of gas as it turned out did not rise as much as anticipated. Consequently, MR. FLYNN had his employees drive less miles in FY82 because the Special Session might cut the travel money. However, the Session let the Department use the extra money to travel more miles, but these extra miles did not occur until FY83. MR. FLYNN stated the Department used FY83 as a base year for their calculations because of this. MR. FLYNN asked the Committee to consider this and accept the FY83 base and also approve the \$16,000 for the Conservation Officer travel.

SENATOR SMITH asked if this extra travel meant more citations. MR. FLYNN stated yes. In 1980, they issued 3,543; 1981-4, 267; 1982-4, 575. MR. FLYNN stated that in 1982 (FY83) they issued more citations than ever before. He attributes this to a combination of getting out more to catch the violators, the Conservation Officer Program, and more people hunting.

MR. FLYNN stated they are making more contacts with landowners and sportsmen than ever before.

The travel funds were line-itemed, and the unused monies reverted back.

SENATOR JOHN MOHAR asked why not increase fines. MR. FLYNN stated that last session they did increase the fines. The problem the Department is experiencing is the Justice of the Peace is not charging enough. In many cases, the Justice has the discretion of charging up to \$1000. For one reason or another, they let the majority of violators off with a very small fine, like \$25. Unless there were to be a mandatory fine system, it is impossible for the Department to control fines. The fines go to the Warden's Retirement System. The total Department contribution to the Retirement System is 11%. Some of the 11% comes from the fines, the rest from the General License dollars.

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MODIFICATIONS FOR THE ENFORCEMENT DIVISION

The following modifications were discussed on Tape #46 Side B-211 through Side B-672. A detailed description is included in EXHIBIT C from February 7, 1983 minutes:

- 1. Bighorn River Enforcement
- 2. Forensic Lab
- 3. Colstrip Warden
- 4. Game Depredation
- 5. Mobile Checking Station
- 6. Reward System
- 7. Grizzly Relocation
- 8. High Band Radios
- 9. Outfitter Council Per Diem
- 10. Reward Program

WILDLIFE DIVISION (Tape #46 Side B-690 & Tape #47 Side A-001)

MODIFICATIONS

The following modifications were discussed on the above sited tapes, ending on Tape #47 Side A-087. A detailed description is included in EXHIBIT C from February 8, 1983 minutes:

- 1. Student Stipend
- 2. Increase Field Surveys
- 3. Economic Study

PARKS DIVISION (Tape #47 Side A-084)

PERSONAL SERVICES - FTE's

The difference of three FTE's between OBPP and LFA is the Department assuming the responsibility for maintenance of the Capitol Grounds around the State. The three FTE's are being transferred from the Department of Administration.

There is also a difference of .56 FTE. This is in the Kalispell Division to pick up a .56 FTE that was under the Green Thumb Program. The .56 FTE was Federal funding, but since the Program is being discontinued, the Department must now pick this up. The work must still be done.

SUPPLIES AND EQUIPMENT

Some of this is a direct result of assuming the maintenance of all the Capitol grounds.

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MODIFICATIONS - PARKS DIVISION

The following modifications were discussed on Tape #47 Side A-141 through Side A-350. A detailed description is included in EXHIBIT C from the February 7, 1983 minutes:

- 1. Disposal of Land
- 2. Solicit Gifts
- 3. Improved Maintenance
- 4. Bighorn River
- 5. Engineer & Aid
- 6. Capitol Snow Removal

CONSERVATION EDUCATION (Tape #47 Side A-351)

MR. FLYNN stated that since 1980, they have cut six positions (in writing, radio work, and "MONTANA OUTDOORS") from this Division. In cutting these FTE's, they have shortened their scope of work, and have also come to rely much more on Contracted Services.

Now, by cutting Contracted Services, it eliminates too much of the program, in MR. FLYNN's estimation. MR. FLYNN requested that \$16,000 be put back in Contracted Services each year.

MR. FLYNN stated the Governor's Council on Management was critical of the Department in getting out information to the sportsmen and the public. He said the Department is trying to address this problem, but cutting back on Contracted Services would severely limit the Department's ability to function in this area.

SENATOR SMITH questioned this because of all the licenses the Department has been selling. The Department even had to turn people away.

MR. FLYNN stated that was not the problem, but that the general awareness of Montanans is very limited. For example, how the State Park System is operated, how the Coal Tax relates, and how they participate through the General Fund. There are also some parks the people in Montana are not aware of. MR. FLYNN stated the Department of Commerce does a fairly good job of promoting tourism outside the State of Montana, but not as much effort is made within the state.

TRAVEL - CONSERVATION EDUCATION

MR. FLYNN stated there was an Administrator who resigned in the base year of 1982, and consequently, there was not as much travel done. He requested that this be considered, and the Committee put back in \$6,000 that was deleted.

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EQUIPMENT (Tape #47 Side A-442)

MR. FLYNN has a request for an \$8,000 editing machine. Because there was a position cut, the "film" part of the Division is a one-man operation. This editing machine could save 40% of that individual's time he now spends editing.

MODIFICATIONS - CONSERVATION EDUCATION

The following modifications were discussed on Tape #47 Side A-465 through Side A-660. A detailed description is included in EXHIBIT C from the February 7, 1983 minutes:

- 1. Youth Educator
- 2. Increase Promotion
- 3. Orphaned Animal

ADMINISTRATION DIVISION (Tape #47 Side A-661)

FTE's

With the reorganization, there is a transfer of the Regional Supervisors from the Centralized Services Division to the Administration Division. There are currently seven people in Administration, and they are adding 22.5 from the field.

MODIFICATIONS

The following modifications were discussed on Tape #47 Side A-685 to end, and on Side B to 053. A detailed description is included with the February 7, 1983 minutes:

- 1. Water Adjudication Attorney (Contracted Services)
- 2. Data Processing
- 3. Uniforms Helena

UPGRADES

There were seven reclassifications - going from Grade 7 to Grade 8; and 10 other upgrades: Grade 8 to Grade 9; Grade 12 to Grade 14; three were Grade 10's to Grade 11; Grade 8 to Grade 12; Grade 12 to Grade 13; two were Grade 16 to Grade 17. The total was 17 reclassifications. Most upgrades were in the lower levels. This does not include the Wardens. There are a total of 443 FTE's, 80 are Wardens. So the upgrades of the 17 individuals is out of 360 FTE's. Of the Warden upgrades and the 80 employees, the upgrades did not affect the Administrators in Helena, the Warden Captains, nor the Warden Sargeants.

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EXECUTIVE ACTION (Tape #47 Side B-150)

FISHERIES DIVISION

CONTRACTED SERVICES

The Department is requesting more Data Processing time on their current system, which is plugged into Bozeman. This is not a request for any more equipment. MR. FLYNN stated the Department conducts extensive surveys with wildlife and fishery license holders to determine, where they went, why, how they did. They add this information to their data base. The Department must pay for more time to accommodate all of the information. This \$5,000 request is included in the OBPP Budget, but not the LFA.

REPRESENTATIVE HEMSTAD MOVED TO ACCEPT THE LFA FIGURES FOR CONTRACTED SERVICES. MOTION PASSED WITH CHAIRMAN MANUEL VOTING NO.

SUPPLIES/MATERIALS

The LFA request does not include the \$5,000 in Fish Food. CAROLYN DOERING stated the Department used more Fish Food than what was shown on their records originally.

SENATOR SMITH MOVED TO ADOPT THE OBPP FIGURES FOR SUPPLIES/MATERIALS. MOTION PASSED WITH REPRESENTATIVE HEMSTAD AND STOBIE VOTING NO.

COMMUNICATIONS, TRAVEL, RENT, UTILITIES, REPAIRS, OTHER EXPENSES

REPRESENTATIVE HEMSTAD MOVED TO APPROVE THE LFA FIGURES. MOTION PASSED UNANIMOUSLY.

EQUIPMENT (Tape #47 Side B-276)

MR. FLYNN stated there are four basic differences in Equipment between the OBPP and the LFA:

1. FY84 OBPP included a Jet-Powered Boat for the Bighorn River. This would be a survey boat equipped with shocking gear. The total cost is \$14,000. The boat they use now on the river is transported from the Livingston area. The Livingston area is so busy, that they cannot get the boat until late in the year. MR. FLYNN stated that since the Bighorn River is a priority with the Department, it does need much more attention.

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- 2. FY84 in OBPP \$10,000 for a facility at Intake, Montana fishing area to clean and process fish. MR. FLYNN stated during the run of the paddle fish, these huge fish are cleaned right there. With the \$10,000, they want to build a small building, with a table and water to accommodate this. This would be for all of the sportsmen to use. The \$3 tagging fee would cover most of the cost of this.
- 3&4. FY85 in OBPP \$38,000 for boat on Flathead Lake plus \$18,000 to equip it. MR. FLYNN stated there currently is a second-hand boat on Flathead Lake. It does accomplish the job, but the drawback is that it is so big, it cannot be transported to any other area. It is equipped with electronic apparatus to monitor fish deep in the lake. The boat is worn out.

DICK GILBERT stated that in FY84, he cut out the Department's number one priority - the Jet Boat; and the third priority - the building at Intake; and FY85 - he cut the Flathead Boat, which was the Department's number one priority for that year.

MR. FLYNN stated there was a man cleaning the area at Outlook. The reasons he stopped were two fold; there is a law that states you cannot sell the parts of game animals and fish, and secondly, he came because the market was good. He now is not as interested, because the market for paddle fish is better in other parts of the country. So there is not anyone else to contract with to do this.

SENATOR SMITH asked if the money couldn't be better spent by upgrading some of the hatcheries. MR. FLYNN responded that both these requests and the hatcheries are important. He couldn't say which was most important. He left that decision to the Committee.

SENATOR LAND MOVED TO ADOPT THE OBPP FIGURES FOR EQUIPMENT.

REPRESENTATIVE HEMSTAD MADE A SUBSTITUTE MOTION TO ACCEPT THE OBPP FIGURES MINUS THE JET BOAT IN FY84 AND MINUS THE FLATHEAD BOAT IN FY85. REPRESENTATIVES STOBIE AND HEMSTAD VOTED YES. CLAIRMAN MANUEL AND SENATOR LANE VOTED NO. SENATOR SMITH ABSTAINED. MOTION ENDED IN A TIE.

The OBPP figures had included all of the equipment requests, minus the data processing equipment and less 10%.

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REPRESENTATIVE HEMSTAD remarked that even though these are earmarked funds, all the rest of Montana State Government is just making do.

The meeting adjourned at 11:55 a.m. (Tape #47 Side B-674)

REX MANUEL, Chairman

JOINT HOUSE-SENATE APPROPRIATIONS SUBCOMMITTEE ON NATURAL RESOURCES February 11, 1983 Department of Fish, Wildlife and Parks MODIFICATIONS

APPROVED

1. P68 Aircraft
Revolving Fund FY84 \$200,000
Centralized Services
(Tape #53a, Side A-001)

FTE 0

The Department seeks funds to buy a new aircraft adequate for both field operations and transportation of Department personnel. They will trade in a 20-year-old aircraft to help finance the purchase. Trade-in value - \$30,000. MR. FLYNN testified they had researched three types of aircraft, and this was best for their needs. REPRESENTATIVE HEMSTAD asked why this was the only twin-engine they had looked at. MR. FLYNN responded that normally twin-engine costs are much more expensive. However, in the course of research, they came across this one, which was within costs.

This plane is cheaper per hour to operate, has twin engines, good for questionable and night flying (patrolling for spot light poaching), has a shorter landing and take-off requirement, has a "bubble-nose" for visibility, seats five besides the pilot. It costs \$80/hour to operate, which is the same cost to operate their present 20-year-old plane - without counting depreciation.

MR. FLYNN stated the primary use of the plane will be to plant fish in the mountain lakes.

Cost savings vs. charter is \$80/hour compared to \$180/hour on average for charter.

Ninety percent of the components come from America, but it is designed and assembled in Italy.

SENATOR BOYLAN MOVED TO APPROVE THE AIRCRAFT. MOTION PASSED WITH SENATOR SMITH VOTING NO. This aircraft will be funded from operations money in the Revolving Account and will cut down on Contracted Services. However, SENATOR SMITH felt that even though it can be paid for in current level, it all comes from license fees, and every year the Legislature has to keep raising their fees to keep up with operations.

TIE VOTE - NO RECOMMENDATION
2. Purchasing Coordinator
Federal Funds FY84 \$23,234 FY85 \$25,298 FTE 1
Centralized Services
(Tape #53a, Side A-097)

This is to be funded with "overhead functions" from the Federal and Contracted Services money. The Department requests a coordinator to analyze requests for purchasing, researching proper quantities to purchase, and reviewing the cost effectiveness of equipment acquisitions. During FY 82, the Department spent \$2.6 million on supplies, materials, repair, maintenance, and equipment. MR. FLYNN stated that if they could effect a 1% cost-savings with more efficient controls, this would result in a net savings. DAVE MOTT testified that even though they go through the Central Purchasing Division, the do not have anyone to research competitive prices, especially on large items for parks, such as fencing, latrines, and cattle guards.

REPRESENTATIVE STOBLE MOVED NOT TO APPROVE THIS MODIFICATION. REPRESENTATIVE STOBLE, REPRESENTATIVE HEMSTAD AND SENATOR SMITH VOTED YES. CHAIRMAN MANUEL, SENATOR LANE, AND SENATOR BOYLAN VOTED NO. MOTION FAILED BECAUSE OF A TIE VOTE. SENATOR BOYLAN felt that because the equipment purchased by the Department is so extensive, the need a coordinator, REPRESENTATIVE STOBLE

felt that out of 400 employees, someone on staff should be able to do this.

APPROVED

Program Analyst
License Fund FY84 \$29,421 FY85 \$29,354 FTE 1
Centralized Services
(Tape #53a, Side A-197)

In the past, the Department has contracted with the Department of Administration for \$48,600 per year. The Department could hire an analyst for approximately \$30,000 per year. The current level budget has been reduced based on this modification. If the FTE is not approved, then \$48,600 must be restored to the budget to provide adequate funds to contract with Administration. If approved, it would be a cost savings of about \$18,000 per year.

REPRESENTATIVE STOBLE MOVED TO APPROVE THE MODIDIFICATION FOR THE PROGRAM ANALYST. MOTION PASSED UNANIMOUSLY.

NOT APPROVED 4. Training and EEO License Fund FY84 \$12,000 FY85 \$12,000 FTE 0 Centralized Services (Tape #53a, Side A-219)

The Governor's Council on Management was critical of the Department in that they do not spend enough time on training supervisors in Personnel Management. This type of program is needed to ensure that the Department is in compliance with EEO and Affirmative Action Guidelines, and to improve management skills.

The Council has also recommended reviewing and updating job descriptions, implementing a Performance Appraisal System and to monitor its use, and to develop a formal program of instruction based on training needs.

REPRESENTATIVE HEMSTAD pointed out that the State follows an Affirmative Action Program, and asked how FWP fits into this. MR. FLYNN stated that the Department of Administration administers the Plan, and ranked FWP the lowest in State government for compliance with that Plan. The training requested is not strictly for EEO, but all phases of personnel management.

REPRESENTATIVE HEMSTAD stated that this type of training on EEO and Affirmative Action could be done in a very short period, by people from Administration, and should not require extra dollars.

REPRESENTATIVE STOBLE MOVED TO DENY THIS MODIFICATION. MOTION PASSED WITH SENATOR LANE AND CHAIRMAN MANUEL VOTING NO.

NOT APPROVED

5. Core Staff Financing License Fund FY84 \$100,683 FY85 \$100,461 FTE 3.92 (Tape #53a, Side A-282)

Prior to the 1979 Session, the Department was experiencing problems with having to contract with biologists for certain projects for a period of time, then having to let the biologist go. The Department would then get another project, and have to start all over again in finding an available biologist, orienting him, and only to have the biologist again leave when the project was done.

The 1979 Session began "Core-Staff Financing." There was authorized a certain number of FTE's at specified dollar level to fund those biologists to do Department projects, in between contract projects. This allows the Department to have increased research capabilities, as well as keeping knowledgeable professionals on staff when the contracts do come up.

Five FTE's were originally authorized. Because the Department did not use all of the FTE's, they were cut back to 1.08 FTE's. MR. FLYNN asked the Committee to authorize the five FTE's and the \$100,000 per year so these professionals would be available. These people are to fill-in between contracts.

SENATOR SMITH asked what if there are no contracts. MR. FLYNN stated they would not hire any new FTE's if the contracts did not come in.

The funds are to cover the staff until contract monies arrive. When they are not on contracts, they would be funded by License Fees.

CHAIRMAN MANUEL noted that the "Core-Staff" has saved the Department a lot of money.

SENATOR SMITH clarified that if there were no contracts, the Department would be authorized to spend \$100,000 each year.

REPRESENTATIVE HEMSTAD MOVED TO DENY THIS MODIFICATION. MOTION PASSED WITH CHAIRMAN MANUEL AND SENATOR LANE VOTING NO.

TIE VOTE - NO RECOMMENDATION

6. Elkhorn Wildlife

Coordinator
License Fund FY84 \$28,044 FY85 \$27,982 FTE 1
Wildlife Division
(Tape #53a, Side A-446)

The Department requests to continue a position established through Budget Amendment. The Coordinator supervises development and management of the wildlife monitoring studies being done by the U. S. Forest Service and the Department in the Elkhorn Mountains. MR. FLYNN stated this is a pilot program for the nation. It is a cooperative venture with the Forest Service. The Forest Service was paying 75%, the Department 25%. The Forest Service has now stated they intend to go 50%-50%.

It is the hope of the U.S. Forest Service and the Department that this unique kind of a program be utilized to answer future questions of "wilderness vs. non-wilderness."

MR. FLYNN emphasized that this is a one-of-a-kind program. The request includes the State's share of the total program, including salary, travel, equipment, etc.

SENATOR LANE MOVED THAT THIS MODIFICATION BE APPROVED. SENATOR LANE, SENATOR BOYLAN, AND CHAIRMAN MANUEL VOTED YES. REPRESENTATIVES STOBIE AND HEMSTAD VOTED NO, AND SENATOR SMITH VOTED NO. MOTION FAILED BECAUSE OF A TIE VOTE. The three voting yes felt MR. FLYNN had justified the program and it had merit. The three who voted no did not want to assume another program started by the Federal government.

APPROVED

7. Bighorn River

License Fund FY84-\$44,464 FY85-\$44,952. FTE 1.41 Fisheries Division (Tape #53a, Side A-593)

MR. FLYNN stated that the Bighorn River is new since last Session. The State regained jurisdiction in 1981 due to a U.S. Supreme Court decision. MR. FLYNN stated the river is a priority because it was uncttended by the State for six years during the dispute with the Crow Indians. He said it has a reputation as the best brown trout stream in the nation. Mr. FLYNN has been advised by the attorney who represented the State in the court battle that the State could lose the river if it is not managed in a prudent and responsible manner.

The request includes a biologist, who will be spending about 80% of his time on the river, one person for creel census, and .41 FTE to aid in stocking. (The original request was for 2.41 FTE and \$58,394 in FY 84; \$58,882 in FY 85.)

MR. FLYNN stated he has dropped 80 FTE's the past three years. He does not have the flexibility to use people from other areas. He needs new FTE's for the Bighorn project.

The administration of the river will come out of the Billings office.

SENATOR SMITH MOVED TO APPROVE 1.41 FTE IN THIS MODIFICATION AND THAT THE FIGURES BE ADJUSTED TO REFLECT THIS. MOTION PASSED WITH REPRESENTATIVE STOBLE AND REPRESENTATIVE HEMSTAD VOTING NO.

TIE VOTE - NO RECOMMENDATION

8. Hydrologist
License Fund FY84 \$10,000 FY85 \$12,500 FTE 0
Fisheries Division
(Tape #53a, Side B-030)

The Department requested to contract with MSU for a Hydrologist to provide expertise on projects to improve conditions for fish, game, and the landowners. This help is also needed to continue work on the Streambed Preservation Project.

Reduced Federal Funding in the Soil Conservation Service will greatly reduce engineering assistance to landowners. MR. FLYNN stated the caseload is increasing.

REPRESENTATIVE STOBLE MOVED TO DENY THIS MODIFICATION. REPRESENTATIVE STOBLE, REPRESENTATIVE HEMSTAD, AND SENATOR SMITH VOTED YES. CHAIRMAN MANUEL, SENATOR BOYLAN, AND SENATOR LANE VOTED NO. MOTION FAILED BECAUSE OF A TIE VOTE. REPRESENTATIVE STOBLE felt the SCS should continue this. He did not feel the State could assume it.

APPROVED

9. Warm Water Fish

Needs
License Fund FY84 \$201,035 FY85 \$156,035 FTE 3.45
Fisheries Division
(Tape #53a, Side B-071)

The Fish and Wildlife Service plans to close the hatchery in Miles City. This would deplete the sole source of warm water fish production in eastern Montana. MR. FLYNN is asking for funds to keep the hatchery operating until they can get a study to decide what to do with it. MR. FLYNN stated that the buildings are in fairly good shape, but that the ponds and

water are bad. They will probably have to run a pipeline from the Yellowstone River to the hatchery.

Included in the FY 84 request is \$50,000 to contract with an engineering firm to estimate costs to renovate the hatchery at Miles City, or to build a new hatchery at Fort Peck.

The original request asked for 2.1 FTE in Miles City and .35 for a spawning crew. 1.5 FTE was for a biologist to study Fort Peck habitat and food problem.

REPRESENTATIVE STOBIE asked why one of the biologists in Glasgow couldn't study Fort Peck. MR. FLYNN stated there are three biologists there, but he would have to take them from their regular duties and reassign them. Then their regular duties would be left undone.

MR. FLYNN stated he currently has only one biologist in the Miles City Region, who must handle a very large area. He needs the 2.1 extra FTE's, a Hatchery Manager and Hatchery Worker, in the Miles City Hatchery to deal with the problems there.

CHAIRMAN MANUEL stated that at the Fee Increase Hearing, the general feeling was that the Miles City Hatchery is a priority.

REPRESENTATIVE HEMSTAD MOVED TO ACCEPT TWO FTE. SENATOR SMITH MADE A SUBSTITUTE MOTION TO ACCEPT 3.45 FTE. THIS DELETES THE .5 FTE BIOLOGIST AT FORT PECK, LEAVING THEM WITH ONE FTE BIOLOGIST AT FORT PECK, 2.1 FTE PLUS .35 SPAWNING CREW IN MILES CITY. THIS ALSO INCLUDES THE ENGINEERING STUDY, MAINTANING MILES CITY, AND STUDYING FORT PECK. MOTION PASSED WITH REPRESENTATIVES HEMSTAD AND STOBIE VOTING NO.

NOT APPROVED 10. Bighorn River

License Fund FY84 \$8,544 FY85 \$8,841 FTE 0 Enforcement Division (Tape #53.a, Side B-277)

This is for the increased travel costs associated with the management responsibilities of the Bighorn River.

REPRESENTATIVE STOBIE stated this Committee had increased the Department's travel budget already. MR. FLYNN stated the increase was based on the 1981 miles. The Department did not assume jurisdiction of the river until late 1981, and asked the Committee to consider this.

REPRESENTATIVE STOBLE MOVED THAT THIS MODIFICATION BE DENIED. MOTION PASSED WITH SENATOR LANE VOTING NO. SENATOR SMITH WAS EXCUSED.

APPROVED

11. Forensic Lab
License Fund FY84 \$13,413 FY85 \$13,627 FTE .33
Enforcement Division
(Tape #53a, Side B-316)

This request is for operating support to help fund the work done by the lab for the Enforcement Division. The Division has increasing need for the use of this facility to fulfill the enforcement functions in the identification of meat, blood, carcass parts and hair.

REPRESENTATIVE STOBLE MOVED TO APPROVE. MOTION PASSED UNANIMOUSLY.

APPROVED FTE - NOT FUNDING

12. Colstrip Warden
License Fund FY84 \$-0- FY85 \$-0- FTE 1
Enforcement Division
(Tape #53a, Side B-343)

MR. FLYNN stated he has had an ongoing problem in this area. For three years, he has tried, unsuccessfully, to get the Coal Board to help finance a warden. The workload has been increasing because of the energy development bringing the increased population. The monies requested would totally finance a warden, including vehicle, sidearms, etc. FY 84 \$37,893; FY 85 \$38,562.

REPRESENTATIVE HEMSTAD stated this problem is directly related to the increase in population, and it should be the responsibility of the Coal Board. MR. FLYNN agreed, and stated he has been trying.

SENATOR BOYLAN MOVED TO ACCEPT THE ONE FTE ONLY, WITH NO FUNDING. IT IS THIS COMMITTEE'S INTENT TO WRITE A LETTER TO THE COAL BOARD ASKING THEM TO ASSUME THEIR RESPONSIBILITY AND FUND THIS POSITION. MOTION PASSED UNANIMOUSLY.

APPROVED

13. Game Depredation
License Fund FY84 \$39,122 FY85 \$41,671 FTE 0
Enforcement Division
(Tape #53a, Side B-406)

The expanded program of landowner relations dictates the need for increased funding to help relieve game damage on private lands. The current level budget is approximately \$65,000 per year. The money is used primarily to buy materials and supplies, such as fence to keep elk out. Ranchers and farmers stated at the Fee Increase Hearing they need more resources to keep elk and deer off their property.

CHAIRMAN MANUEL stated at the Hearing, this was a subject, and that there should be more done about this problem.

REPRESENTATIVE HEMSTAD stated landowners are going to continue to look to Fish, Wildlife, and Parks to solve all of their problems, when they should be taking care of things themselves.

MR. FLYNN stated the main problem is the mild winter, which makes many new babies. When the landowner has a problem, the Department provides the materials, and the rancher fixes it.

MR. FLYNN stated game depredation is a problem, and the Department attempts to deal with it through increased permits, transferring some animals, and working with the landowners. This request is only to increase the present program to take care of inflationary costs on the building materials and meet the demands they have been experiencing the past two years with the increased numbers.

MR. FLYNN feels it is a valid expenditure, and one the Department has been doing for thirty years.

SENATOR BOYLAN MOVED TO DENY THE REQUEST. SENATOR LANE MADE A SUBSTITUTE MOTION TO APPROVE THE REQUEST. MOTION PASSED WITH SENATOR BOYLAN AND REPRESENTATIVE HEMSTAD VOTING NO.

NOT APPROVED

14. Mobile Check Station
License Fund FY84 \$38,961 FY85 \$39,292 FTE 1
Enforcement Division
(Tape #53a, Side B-569)

An aggregate position and travel costs are requested to provide a means of curtailing illegal hunting activites. This position would be used to hire a mobile crew to travel throughout the State for a six-week period. Since the limit was established on out-of-state hunters, illegal activites have increased. MR. FLYNN stated they would contract with law enforcement types, and perhaps some retired wardens. He feels it is a good concept.

REPRESENTATIVE STOBLE MOVED TO DENY. MOTION PASSED UNANIMOUSLY.

NOT APPROVED

15. Reward System
License Fund FY84 \$10,862 FY85 \$11,439 FTE 0
Enforcement Division
(Tape #53a, Side B-577)

This system would be similar to Crimestoppers. Concerned citizens could report violations and receive a reward. A warden's district is such that many serious violations can go undetected without public participation. Reward monies would be established through public contributions and administrered by a civic board of directors. The Department is requesting funding for administrative costs only. A Department employee will act as an advisor to the board.

MR. FLYNN stated there is a bill in this Session to authorize the program.

REPRESENTATIVE HEMSTAD stated that her program in Cascade County is through donations, and not public monies.

REPRESENTATIVE STOBLE MOVED THAT THE MODIFICATION BE DENIED. MOTION PASSED UNANIMOUSLY.

NOT APPROVED

16. Grizzly Relocation
License Fund FY84 \$37,167 FY85 \$17,073 FTE 0
Enforcement Division
(Tape #53a, Side B-630)

MR. FLYNN stated that the Grizzly is becoming an endangered species. When a Grizzly does become a problem, FWP ends up killing it or transferring it. Lack of funds to deal with this in the past has made it difficult to transfer the animal because of the high cost.

The high cost in FY 84 is to purchase equipment to transfer the animal to British Columbia.

REPRESENTATIVE HEMSTAD MOVED TO DENY THE GRIZZLY RELOCATION MODIFICATION. MOTION PASSED UNANIMOUSLY.

APPROVED

17. High Band Radios
License Funds FY84 \$111,000 FY85 \$47,000 -0- FTE
Enforcement Division
(Tape #53b Side A-001)

The Enforcement Division currently utilizes low band radios for communications with sheriffs' offices, city police, highway patrol, and livestock enforcement personnel. There is presently a move by many state and local government agencies to convert low band radios to high band communications network. This requires FWP to replace its low band radios. County and municipal governments have already converted 57% of their equipment and 26% of the State conversion is complete. It is estimated that all agencies will be converted within the biennium.

REPRESENTATIVE STOBLE MOVED TO APPROVE. MOTION PASSED UNANIMOUSLY The Committee felt it was a necessity to keep in touch with other law enforcement personnel.

APPROVED

18. Outfitter Council

Per Diem

Outfitter License Fees: FY84-\$6,400 FY85-\$6,400 -0- FTE Enforcement Division (Tape $\#53_{\rm b}$ Side A-011)

In a sunset audit completed by the Office of the Legislative Auditor on the Outfitter's Advisory Council, it was recommended that the Department pay travel costs for Council members. It is estimated the Council will meet seven times per year at a cost of \$913 per meeting.

SENATOR SMITH MOVED TO APPROVE THE MODIFICATION. MOTION PASSED UNANIMOUSLY.

APPROVED

19. Reward Program

Donations: FY84-\$30,000 FY85-\$30,000 -0- FTE (Tape #53_b Side A-034)

This request is for authorization to spend reward monies, should the Reward Program House Bill be accepted.

REPRESENTATIVE HEMSTAD MOVED TO APPROVE. MOTION PASSED UNANIMOUSLY.

NOT APPROVED

20. Student Stipend License Fund: FY84-\$19,000 FY85-\$19,000 -0- FTE Wildlife Division (Tape #53b Side A-049)

Due to a reduction of State and Federal funds for the University System, the Department must provide financial support for graduate student studies of Department-sponsored wildlife projects. They now sponsor two students. This request is to sponsor two more students.

REPRESENTATIVE STOBIE asked why they sponsor a scholarship. MR. FLYNN stated it is not a scholarship program. At both Universities in Montana, there are wildlife programs. The graduate students can conduct some of the research the Department needs done, under supervision, and at a much cheaper cost. So it is meeting the needs of the students and the Department.

MR. FLYNN sited some examples of the eagle depredation on sheep, and coyotee impact on sheep.

JEANNA MARIE SOUNGHEY from the Associated Students of the University of Montana testified in support of the Department. She stated that \$26,000 the State contributes helps generate over \$300,000 a year in grants.

REPRESENTATIVE HEMSTAD asked if by adding two more students to the program, would this increase the grants. MS. SOUNGHEY stated she understood it was matching grant money, so it would. MR. FLYNN stated there was no increased revenue to the Department, but savings realized in less costly research.

REPRESENTATIVE STOBIE clarified that the Department does currently sponsor two students, one at each University, and to deny this modification would not affect the current program.

REPRESENTATIVE STOBLE MOVED TO DENY THE MODIFICATION. MOTION PASSED WITH CHAIRMAN MANUEL AND SENATOR BOYLAN VOTING NO.

SENATOR SMITH noted that the priority is to try and keep current level programs going.

NOT APPROVED

21. Increased Field Surveys
 License Fund: FY84-\$138,257 FY85-\$144,806 .50 FTE
 Wildlife Division
 (Tape #53, Side A-160)

This request will fund additional travel and aerial surveys for a study designed to allow maximum hunter utilization of high deer and antelope populations through permits and increased hunting quotas. The study would also help minimize agricultural damage caused by big game animals on private lands.

MR. FLYNN explained that when these big game animal populations peak, the Department receives a lot of pressure from landowners to liberalize the season to get these numbers down. They normally take these counts about every three years. As they start to liberalize these seasons, MR. FLYNN feel it is extremely important to take more counts, in order to insure the numbers of these animals are not decreased too much.

This request is to enhance their management of the big game species. The Department had this problem in the 1960's and ended up with a serious shortage in the deer population. It took many years to correct the problem.

SENATOR SMITH stated that in his area, they are counted once a year.

CHAIRMAN MANUEL asked if the wardens didn't have a handle on this. MR. FLYNN stated to some extent, yes.

SENATOR SMITH MOVED TO DENY THE REQUEST. MOTION PASSED UNANIMOUSLY.

APPROVED

22. Disposal of Lands

License Fund: FY84-\$24,288 FY85-\$24,233 1.0 FTE Parks/Rec. Division (Tape #53_h Side A-226)

The Department needs 1 FTE to implement an effective disposal program. Lands administered by the Department that no longer provide justifiable public benefit would be traded for areas with high recreational potential. MR. FLYNN stated every time they can sell one of these unuseable pieces of property, the money goes to the Trust Fund, and the interest can be used for operations and maintenance. Since last Session, they have disposed of one piece of property, and have three others ready to go. However, at this rate, MR. FLYNN feels they cannot get much done over the next few years. This is why he wants one person skilled in this area to step up this process.

SENATOR SMITH asked why the people already in the field dealing with purchases of land, also be the ones to take care of this disposal. MR. FLYNN stated this is a problem he's got, that the results of disposing are taking entirely too long.

SENATOR SMITH asked how much land there is to dispose of. MR. FLYNN said in this first go-around, there are four parcels that have been identified. As soon as these are taken care of, the same process will start again, hopefully at a much faster pace.

(Tape \$54 Sideb 067--103) REPRESENTATIVE STOBLE MOVED TO ACCEPT THIS MODIFICATION WITH THE STIPULATION THAT THE DEPARTMENT REPORT BACK NEXT SESSION IN WRITING ON THE PROGRESS MADE, WITH SUCH STATISTICS AS HOW MUCH LAND WAS SOLD, AND FOR HOW MUCH. IT IS ALSO THIS COM-MITTEE'S INTENT THAT THIS FUNDING BE LIMITED TO THE BIENNIUM AND BE CONSIDERED AGAIN AS A MODIFICATION. MOTION PASSED WITH SENATOR SMITH VOTING NO.

NOT APPROVED

23. Solicit Gifts - Parks

1/3 License Fund: FY84-\$35,833 FY85-\$24,948 -0- FTE

1/3 General Fund

1/3 Coal Tax

Parks, Rec. Division

(Tape #53_h Side A-297)

MR. FLYNN stated this funding would implement an intensive program to solicit gifts of land and money from in-state and out-of-state corporations and private citizens. This is one way to enhance the State Park System.

SENATOR SMITH stated with the amount of money coming into the Department through Coal Tax and License Fees, he cannot see any justification for this request.

REPRESENTATIVE STOBLE MOVED TO DENY THIS REQUEST. MOTION PASSED UNANIMOUSLY.

APPROVED

24. Improved Site Maintenance 7/8 General Fund. 1/8 Coal Tax Parks/Rec. Division (Tape #53_h Side A-326)

This was a transfer from Contracted Services to Current Level - no increase in the Budget.

MR. FLYNN stated that 1.09 FTE are current level contracted services. The Department of Administration and the Labor Department stated that since FWP knows it will be needing this service every year, they must make it an FTE, instead of a contracted service. This FTE must also be provided all of the appropriate benefits. So 1.09 FTE is a transfer current level, but not an increase.

This request originally was for 3.06 FTE, FY84 \$59,193 and FY85 \$60.739.

1.97 is a new FTE and will be used in providing maintenance required due to the expanded use of a growing park system.

REPRESENTATIVE HEMSTAD asked how long the 1.09 had been working under contract, and how is this related to the Professor that has been working under contract at MSU for ten years. MR. FLYNN stated the 1.09 has been under contract for a number of years. CAROLYN DOERING, OBPP, stated the difference is that the 1.09 is under direct supervision of the Department and the Professor is not, and they are treated differently.

SENATOR SMITH asked if Contracted Services had been adjusted. CAROLYN DOERING said no, it had not.

SENATOR SMITH asked how much money is allowed for maintenance in purchases of parks in the Long Range Building Program. CHAIRMAN MANUEL, who is Chairman of the Long Range Building Committee, stated that the Department is asking for \$525,000 for operations and \$393,000 for development.

SENATOR SMITH asked if there is any duplication of those monies with the request in this modification. MR. FLYNN stated no, there was no duplication, as Long Range Building is for those parks that will be purchased, and this request is for what they have now.

SENATOR SMITH asked how the \$525,000 would be spent. MR. FLYNN stated it would be used to maintain the State Parks purchased with the Coal Tax money. 1/8 of the money in this modification would also be to take care of those parks purchased with Coal Tax. The other 7/8 would be for those parks purchased with General Fund monies.

REPRESENTATIVE STOBLE MOVED TO DENY BECAUSE THE 1.09 IS ALREADY IN CURRENT LEVEL, AND 7/8 IS GENERAL FUND.
REPRESENTATIVE HEMSTAD MADE A SUBSTITUTE MOTION TO ALLOW 1.09
FTE AND THAT 1.09 BE SUBTRACTED FROM CONTRACTED SERVICES.
MOTION PASSED WITH SENATOR LANE VOTING NO. This would give the Department that one employee who has already been working there anyway out of the same funding.

APPROVED

25. Bighorn River License Fund: FY84-\$13,483 FY85-\$14,292 -0- FTE Parks/Rec. Division (Tape #53h Side A-455)

MR. FLYNN stated this money would be for contracted services to maintain the recreational areas on the Bighorn River, which is now under the State's jurisdiction. It will be used to hire someone to clean-up around the fishing access sites, and to monitor for vandalism, etc.

REPRESENTATIVE HEMSTAD asked what was being done now. MR. FLYNN said not much. Since FWP got the area back, they are starting to get pressure to clean it up, put fences back up, clean up the latrines, etc.

SENATOR LANE MOVED TO ACCEPT THIS MODIFICATION. MOTION PASSED UNANIMOUSLY.

DELAYED ACTION

26. Engineer & Aide

Funding Varies: FY84-\$36,000 FY85-\$36,000 1.5 FTE Parks/Rec. Division (Tape #53b Side A-544)

The Governor's Council on Management recommended the Department prepare legislation to change the consulting requirement on construction projects from \$25,000 to \$100,000. This change will result in an increase in the number of projects the Department performs the engineering and architectural requirements on. Implementation of this recommendation will require an additional engineer and a part-time clerk. They request the addition of \$36,000 and 1.5 FTE to FY84 and FY85 in the Parks Division budget. The funding for these individuals would vary depending upon the project they were working on.

The Council and the Department estimate that approximately \$78,000 in professional consulting fees will be saved yearly. This results in a net cost savings to the Department of approximately \$42,000 annually.

MR. FLYNN stated that this expenditure is contingent on a Senate Bill legally changing the \$25,000 requirement.

MR. FLYNN stated that the savings realized would go back into the project.

DAVE MOTT clarified that when a project is bid, the engineering costs come right off the top. The remaining dollars are for the project. When the Department estimates a project at \$100,000 and the engineering costs end up at \$10,000, there is \$90,000 left for the project. MR. FLYNN stated these costs do not come out of this base budget, but out of the Long Range Building.

MR. FLYNN stated that by having this Engineer on staff, it would save on engineering costs. This savings could be realized by not bidding so much for the project, or using the extra money to put back into the project.

There was some confusion by the Committee on where the savings would be realized. If the Committee wanted to make an adjustment for the savings, should it come out of Contracted Services budget in Parks, or should it come out of the Long Range Building Program bidding process?

REPRESENTATIVE STOBLE MOVED NOT TO FUND AND DELAY ACTION UNTIL IT CAN BE WORKED OUT WHERE THE SAVINGS WOULD BE MADE. MOTION PASSED UNANIMOUSLY.

MODIFICATION WITHDRAWN

27. Snow Removal - Grounds Maintenance

CAROLYN DOERING, OBPP, stated this program was transferred from Department of Administration. It has already been addressed in the original budget.

REPRESENTATIVE STOBLE MOVED THAT THIS NOT BE TREATED AS A MODIFICATION AS IT HAS ALREADY BEEN ADDRESSED. MOTION PASSED UNANIMOUSLY. (CHAIRMAN MANUEL WAS EXCUSED AND SENATOR SMITH ASSUMED THE CHAIR.)

NOT APPROVED

28. Youth Educator License Fund: FY84-\$6,498 FY85-\$6,577 .25 FTE Cons. Ed. Division (Tape #53b Side B-106)

The Division is requesting .25 FTE to provide educational programs and field trips to an additional 15 or 20 summer youth camps per year. So many camps request this service that the current youth educator cannot attend more than 50% of the camps requesting this, even with the help of the regional information officers. MR. FLYNN stated he usually hires a teacher who has the summers off.

REPRESENTATIVE HEMSTAD MOVED TO DENY THE REQUEST. MOTION PASSED WITH SENATOR LANE VOTING NO. (CHAIRMAN MANUEL WAS EXCUSED.)

NOT APPROVED

29. Increased Promotional Effort License Fund: FY84-\$43,024 FY85-\$46,849 -0- FTE Cons. Ed. Division (Tape #53_h Side B-173)

Studies indicate that the "Montana Outdoors" magazine needs increased promotional efforts to increase circulation and make the magazine more self-sufficient. Right now, there is a net loss. The magazine is only paying about 60% of its costs. The Governor's Council on Management has recommended increasing subscription rates, to sell artwork on a commission basis, and to conduct a promotional campaign to attract new subscribers.

MR. FLYNN stated that with this investment of \$43,000, he plans to get \$53,000 back. MR. FLYNN stated he is also raising the subscription rates within the next two months, and again next year.

MR. FLYNN stated the net loss in FY81 - \$113,798 FY82 - 105,755 FY83 -124,633 FY84 -

98,416 FY85 -91,208

MR. FLYNN stated that the FY84 and FY85 projections include this modification promotion and the subscription increases. But by 1985, the magazine will be carrying 75% of its costs.

SENATOR SMITH stated comments he hears is that the magazine should pay for itself or be discontinued. MR. FLYNN stated most the comments he hears is to keep it going. MR. FLYNN stated he is striving to make it self-sufficient.

SENATOR SMITH asked how many subscriptions are sold to Montanans. MR. FLYNN stated he did not have that information with him.

REPRESENTATIVE HEMSTAD felt that promotion should be left up to the Department of Commerce.

REPRESENTATIVE STOBIE MOVED TO DENY THIS REQUEST. MOTION PASSED WITH SENATOR LANE VOTING NO. (CHAIRMAN MANUEL WAS EXCUSED.)

APPROVED

30. Orphaned Animal Care
License Fund: FY84-\$4,193 FY85-\$4,221 .25 FTE
Cons. Ed. Division
(Tape #53b Side B-257)

This will allow the Division to reinstate this program which was funded from the early 1950's through 1980. Due to budget constraints the program was not funded in FY82-83. Each year the public brings a number of young and injured wild animals/birds to the Department. With the addition of a .25 FTE and operating costs, Division staff could once again help orphaned and injured animals. The position is usually filled by a college student for the summer.

SENATOR SMITH asked what they are doing with the animals now. MR. FLYNN stated that unfortunately, they usually have to destroy the animal. This is hard to do with the public feeling.

REPRESENTATIVE HEMSTAD asked what the Department would be doing differently. MR. FLYNN said he would reinstate the program with compounds and cages, and feed the animals with scraps from the supermarkets.

REPRESENTATIVE STOBIE stated that in his area, orphaned animals have been cared for, and there is much public sentiment for this kind of a program.

REPRESENTATIVE STOBLE MOVED TO ACCEPT THIS PROGRAM. MOTION PASSED UNANIMOUSLY. (CHAIRMAN MANUEL WAS EXCUSED.)

APPROVED - LINE ITEMED

31. Water Rights Adjudication Attorney
License Fund: FY84-\$30,000 FY85-\$30,000 -0- FTE
Administration
(Tape #53b Side B-315)

MR. FLYNN stated that if the need arises, he would like to be able to contract with an outside attorney who specializes in Water Rights Adjudication. This is to analyze and protect the Department's water rights and responsibilities on behalf of the sportsmen.

MR. FLYNN anticipates he will be able to handle this in-house, but in case he runs into problems, would like the ability to go outside.

MR. FLYNN'S original request was for \$39,326 FY84 and \$41,685 FY85, which includes 500 hours plus \$4,500 consultant, and \$4,500 printing and miscellaneous costs.

REPRESENTATIVE STOBIE asked if this legal council would be competing with private landowners. MR. FLYNN stated that if the Department had a water right filed, and a private landowner also had one filed, it would be in conflict. However, the Department filed on behalf of all sportsmen, and not just the State.

MR. FLYNN stated there are over 300 water rights filed by the Department.

REPRESENTATIVE HEMSTAD asked why this isn't in Contracted Services. She pointed out the DNRC had over 400 claims and did not ask for a modification.

DICK GILBERT, LFA, asked why the two staff attorneys couldn't handle this. MR. FLYNN stated that he hoped they could, and it was his intention to use them, but in case they get into trouble in this specialized area, he would like the ability to go outside.

VICE-CHAIRMAN SMITH asked MR. FLYNN if he would object to line-iteming this money, and would accept a lesser amount. MR. FLYNN stated to line-item was fine, as he only intends to use the outside attorney if he cannot handle the problem in-house. He would also accept a lesser amount.

REPRESENTATIVE STOBLE MOVED TO ACCEPT \$30,000 FY84 and \$30,000 FY85, AND THAT THIS BE LINE-ITEMED. MOTION PASSED UNANIMOUSLY. (CHAIRMAN MANUEL WAS EXCUSED.)

APPROVED

32. Data Processing
License Fund: FY84-\$51,500 FY85-\$51,500 -0- FTE
Administration
(Tape #53_b Side B-473)

Included in FWP's original budget submitted to the Office of Budget and Program Planning was \$86,500 for computer equipment. OBPP withdrew the request until a data processing plan was developed by the Department. Since that time, FWP has authored a Data Processing Plan spanning the next five years and costing a total of \$155,000.

Over the current biennium, FWP is requesting \$103,000 be included and split evenly between FY84 and FY85. They propose to acquire the following data processing equipment:

Purchase microcomputers at 3 regional offices---\$41,000

Microcomputers at regional offices would provide word processing reducing the effort to produce correspondence, federal and state reports, mass mailings, season settings, and everyday multidraft typing; process fisheries data such as thermographs, stream flow data, netting data, creel census data, fisherman log data, and fish hatchery data that is sent to a central location to be summarized with data from around the state. Microcomputers will be used to sell licenses left over after the drawings and damage hunt licenses; monitor vehicle mileage for better cost control; enforcement could monitor ticketed sportsmen; process data from traffic into parks; assist in processing fees collected from recreational areas; process data from wildlife check stations, count wildlife classifications, vegetation inventories, wildlife distribution, wing surveys, animal tagging and movement studies, waterfowl banding and recovery and wildlife harvest surveys. Overall the microcomputers would assist this agency in improving hunting and fishing opportunities for Montana sportsmen.

Word Processing for Montana Outdoors-----\$7,650

- Montana Outdoors at the present time has no word processing capabilities. This results in much difficulty in meeting publishing deadlines. Word processing would give them an efficient method to produce multidrafts of magazine articles.

Land Inventory System -----\$15,000

- Department of State Lands is implementing a centralized State Land System. Parks Division administers fishing access sites, game ranges and parks in our agency. FWP would utilize the State Lands System to monitor the liabilities, lease payments, facility inventory, annual visitation, parcel size, legal description and other management information. This computerized system would provide expedient and accurate information to improve overall management of State lands.

Microcomputer for Fish Hatchery-----\$4,550

A microcomputer at a fish hatchery would enable them to determine the cost of rearing fish to a certain size. A microcomputer can also be used to monitor amounts of feed, water conditions, and other conditions to more efficiently raise fish. We request only one microcomputer at this time to test the results of such a project.

Wildlife Data Base-----\$25,000

This would be a statewide wildlife habitat inventory system. FWP would be able to provide information by species to identify important wildlife habitat critical to the survival of individual species. This data base would be valuable for assisting various industries such as mining, oil and gas, timber, water development, etc. in identifying the impact of their projects on various wildlife species. This type of information has been frequently requested by these groups in the past and has not been available. This system was recommended by the Governor's Council on Management.

The Department would request the funds for computer acquisition be included in the Administration Division budget. A Department committee would be established to assure all purchases were made in accordance with our Data Processing Plan. Funding for the computer acquisition would vary depending upon the project involved.

REPRESENTATIVE STOBLE MOVED TO APPROVE THE DATA PROCESSING MODIFICATION. MOTION PASSED UNANIMOUSLY. (CHAIRMAN MANUEL WAS EXCUSED.)

APPROVED

33. Uniforms
License Fund: FY84-\$9,625 FY85-\$2,750 -0- FTE
Administration
(Tape #53b Side B-527)

The 1981 Legislature appropriated \$48,000 to FWP for uniforms for nonlaw enforcement personnel.

The Department spent the \$48,000 to acquire uniforms for its field-based employees. A complete uniform costs \$275.

Helena based personnel with field and public contact were not issued uniforms. If the Legislature feels it appropriate for these individuals to receive a uniform, it will require additional funds. At this time, FWP estimates 35 personnel are involved requiring an adjustment to the Administration Division budget of \$9,625 for FY84. The funds would come from the License Fund.

REPRESENTATIVE STOBLE MOVED TO APPROVE THE UNIFORMS. MOTION PASSED UNANIMOUSLY. (CHAIRMAN MANUEL WAS EXCUSED.)

NOT APPROVED

34. Economic Study
License Fund: FY84-\$196,630 FY85-\$208,428 -0- FTE
Wildlife Division
(Tape #53b Side B-535)

The Department is requesting to contract with the University or a private consultant in order to provide an indepth report on the economical side of Fish and Wildlife. When economics enters into a decision, the Department has no knowledge nor ability to determine the dollar values of Fish/Wildlife. The Federal government has done a similar study on a broad basis, as has the State of Wyoming. MR. FLYNN feels that in these times of dollar accountability, this information would be valuable, and benefit the public as well as the Department.

MR. FLYNN stated it is not possible to determine what the total hunting and fishing is worth in relation to the State's overall economic fiber.

MR. FLYNN hopes that if this kind of an effort can be accomplished, that it will then be kept up to date, so this kind of an overall effort will never have to be gone through again.

SENATOR SMITH asked MR. FLYNN if he has ever asked any wild-life groups what they think of spending License Funds on a project like this. MR. FLYNN stated that he has.

DICK GILBERT, LFA, asked about the possibility of using existing studies. MR. FLYNN stated they do use studies by the Forest Service for some things, but they use Federal guidelines, which put a low value on deer and elk. For example, a hunterday in the forest is compared on a national level, so in other areas of the country, a much lower value is placed on wildlife.

MR. FLYNN stated he wants to contract with someone outside the Department in order to get more objective data. If the Department did it, they may tend to place higher values than what it should be, and not be as realistic.

REPRESENTATIVE STOBIE held faint hope that this kind of a study might someday be valuable. He added that it could be useful at some time, but with these tight economic times, it does not seem feasible.

REPRESENTATIVE STOBLE MOVED TO DENY THIS MODIFICATION. MOTION PASSED UNANIMOUSLY. (CHAIRMAN MANUEL WAS EXCUSED.)

VISITOR'S REGISTER
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IF YOU CARE TO WRITE COMMENTS, ASK SECRETARY FOR LONGER FORM.

WHEN TESTIFYING PLEASE LEAVE PREPARED STATEMENT WITH SECRETARY.

Helena, MT 59620 December 15, 1982

SUBJECT: Governor's Council on Management - Recommendation #213

REORGANIZATION

The Council on Management has recommended a Fish, Wildlife and Parks reorganization aimed at emphasizing planning, centralizing research and exercising more central control over regional activities.

Fish, Wildlife and Parks accepts these recommendations, but proposes to modify the Council on Management methods for achieving the desired results.

1. More Central Control Over Field Activities in the Region. Council on Management has recommended the elimination of the associate director and having regional supervisors reporting directly to the director. At present the organizational structure with an associate, deputy, and director is barely able to address the administrative needs of the agency. This is due to the transitional needs at present for Fish, Wildlife and Parks to become more involved and responsive to other state agencies as well as more cognizant of the management needs of a resource agency. This transition is not complete, though well started. In addition, when coupled with other Council on Management recommendations, intensified management will be required.

As a result, Fish, Wildlife and Parks proposes the associate director position remain in place and that a division administrator be placed in charge of the Field Division which would include the regional supervisors and their accompanying clerical staff. This division administrator would report directly to the director.

would maintain approach the needed management capability for completing the transitory task remaining and provide central control on field activities as well as to provide direct accountability to the director. The department agrees in principal with the Council recommendation regarding qualifications of supervisors and will address this as positions are filled in the future.

2. Centralizing Research

Council on Management has recommended a combined Division of Planning, Research and Special Projects. With respect to research and special projects, Council on Management felt that a combining of these would result, over a period of time in increased efficiency resulting in cost and personnel savings.

Fish, Wildlife and Parks feels that a further step be taken which would ensure the elimination of potential duplications and inefficiencies. Fish, Wildlife and Parks proposes that research and special projects be assigned to the Fisheries Division or the Wildlife Division depending on the project.

In this matter the administrators of these two divisions would have the total responsibility for research management and special projects within their resource area. We agree a data management plan is needed for the department. The division administrator will develop and implement a program within the responsibilities of their respective division.

Should the need arise for interdivisional coordination the associate director could serve that role.

3. Emphasizing Planning.

Council on Management has noted a lack of department-wide priorities and sense of direction for Fish, Wildlife and Parks activities into the future. It has recommended increasing Fish, Wildlife and Parks' planning, resulting in department management by objective.

Fish, Wildlife and Parks concurs with the need for planning and proposes the effort be of unit status and assigned to the director's office because of its potential for major impacts upon overall Fish, Wildlife and Parks' activities.

The foregoing would result in an organizational structure as follows:

Director

Associate	Field Division	Planning Unit	Deputy
Fish Division		3.1.2 3	Enforcement Division
Wildlife Division	•		Information Division
Parks Division			Centralized Services Division
			Legal Unit

This structure would emphasize planning, centralize research and provide more emphasis on field activities as the Council on Management has recommended. It would also allow the needed management personnel, as viewed by Fish, Wildife and Parks, to achieve those recommendations.

This structure would result in establishing one more unit leader than we now have. In addition, there would not be the savings of the associate director position as recommended.

However, the adoption of the three basic concepts as provided by Council on Management coupled with the foregoing organizational structure will, in Fish, Wildlife and Parks' opinion, provide the best opportunity for achieving the increased efficiency and cost savings the Council on Management outlined over the next three to five years.

This structure would provide the opportunity to review the specific recommendations made by the Council on Management regarding the following positions:

- 1. Habitat Preservation Coordinator, Fisheries and Habitat Preservation Coordinator, Ecological Services
- 2. Pollution Control Biologist, Ecological Services
- 3. Water Resources Supervisor, Ecological Services

4. Water Rights Supervisor, Ecological Services

Fish, Wildlife and Parks does not recommend implementing the Council on Management proposals at this time regarding the four positions mentioned. However, by implementing the aforementioned organizational structure along with the consolidations mentioned, Fish, Wildlife and Parks will further review the positions to determine their future position in state government.

Fish, Wildlife and Parks' view on each position are:

1. Habitat Preservation Coordinator position in Fisheries deals with a workload stimulated by the 1975 Natural Streambed and Land Preservation Act. Fish, Wildlife and Parks serves as an advisor to local conservation districts in the processing of permit applications by local landowners to alter stream banks or channels in Montana. This is a statutory role requirement for Fish, Wildlife and Parks.

Habitat Preservation Coordinator position in Ecological Services deals with a workload stimulated by a 1963 state law which prohibits subdivisions of state government from altering stream channels without the approval of Fish, Wildlife and Parks. This also is a statutory requirement for Fish, Wildlife and Parks.

The first position deals strictly with the private sector and generates a workload of about 600 applications in a normal year.

The second position deals strictly with state and local governmental units and generates a workload of about 150 applications in a normal year. These applications are quite complex and detailed and primarily deal with highway construction. For example, a highway project of 12 miles constructed along 12 miles of stream may constitute one of two or three permits, however, each permit may be for 12 miles or 6 miles or 4 miles of alterations.

The combining of these two positions in the Fisheries Division will allow for us to seek consolidation and reduce any duplication that may exist. Given the differences in permits and accompanying workloads, Fish, Wildlife and Parks does not recommend eliminating one of these positions at this time.

2. The Pollution Control Biologist position deals with water quality and that is a primary purview of the Department of Health and Environmental Sciences. This position developed in Fish, Wildlife and Parks primarily because of a need for fisheries expertise at the Department of Health and Environmental Sciences. Close coordination in the fisheries water quality area was also needed to reduce duplication of effort by both agencies. The Council on Management has indicated this position should be eliminated.

Fish, Wildlife and Parks does not agree. Department of Health and Environmental Sciences may be willing to do more in this area, however, their lack of resources prevents them from doing so. It may be possible to conduct a dialogue with Department of Health and Environmental Sciences which could achieve the desired results through a cost share position or a Fish, Wildlife and Parks' contract with Department of Health and Environmental Sciences for necessary work.

However, it should be kept in mind that Fish, Wildlife and Parks is the state agency which, by law, is responsible for the states fisheries resources. As such Fish, Wildlife and Parks has, through the years, developed a significant level of expertise regarding our fishery resource. It is questionable in our minds that this expertise needs to be developed in another state agency.

Our proposed organization could work toward these goals, however, until such an accommodation is achieved, the present position should remain in place.

It is important to note that the philosophy behind the development of such a position is one of expending money and manpower on a matter of high priority within Fish, Wildlife and Parks even though direct statutory responsibility lies with Department of Health and Environmental Sciences.

3. The Water Resources Supervisor and Water Rights Supervisor are positions that have materialized through a process that places a high priority within Fish, Wildlife and Parks for a function that may rest with another entity.

These positions now deal with protecting Fish, Wildlife and Parks' water rights in existence and securing instream flows in the future. This activity includes representing Fish, Wildlife and Parks in permitting processes at both the state and federal level for electrical generating permits, water

allocation procedures, proposed dam construction, as well as Fish, Wildlife and Parks' those permits now in as well as owned or leased properties.

There is no state agency which acts on behalf of all state incumbent upon Fish, Wildlife and Parks to maintain such

It may be possible that consolidations achieved through the proposed organizational consolidations achieved through the lessening one of two positions could result in a structure and performance is assured, result and performance is assured, result on these two positions.

As a result state maintain such consolidation achieved through the structure could result in a such position could result in a performance is assured, result for these two positions.

At this time it is difficult to determine the council on realized upon implementation of the reorganization. Cost savings reports.

Internal Coordinator

Date

DEPARTMENT OF FISH, WILDLIFE AND PARKS Analysis of Fish Food Usage Fiscal Year 1982

Fish food carry forward from Fiscal Year 1981	\$18,877
Fish food purchased in Fiscal Year 1982	75,346
Fish food available for usage in Fiscal Year 1982	94,223
Fish food balance at June 30, 1982	12,978
Fish food usage during Fiscal Year 1982	\$81,245
Fish food purchased in Fiscal Year 1982	\$75,346
	\$75,346

113/H

DEPARTMENT OF FISH, WILDLIFE AND PARKS PR - DJ Revenues Fiscal Years 1982, 1983, 1984, and 1985

Division	1982 <u>Actual</u>	1983 Budget	1984 <u>Budget</u>	1985 Budget
Ecological	\$310,364	\$261,074	\$235,424	\$235,424
Fisheries	677,218	422,261	333,258	333,258
Enforcement	60,527	71,775	66,618	67,444
Wildlife	2,153,476	2,229,450	1,600,000	1,600,000
Total	\$3,201,585	\$2,984,560	\$2,235,300	\$2,236,126

1982-83	Biennium Totals \$ 6,186,145
1984-85	4,471,426
Decreased PR-DJ Revenues Loss in Overhead (10.5%) Total Decrease in PR-DJ Revenues	$ \begin{array}{r} 1,714,719 \\ \underline{180,045} \\ 1,894,764 \end{array} $

113/G

PRIORITY LISTING OF HATCHERY REPAIRS AND REPLACEMENT

AND

HISTORY AND PRODUCTION OF MONTANA'S SEVEN STATE FUNDED FISH HATCHERIES

Prepared by: Arthur N. Whitney Emmett L. Colley

Date: December 29, 1982

Priority Listing of Hatchery Repairs and Replacement

1. Move Flathead Lake Salmon Hatchery operation to Creston flowing well site.

\$ 455,000

2. Construct new hatchery building and increase rearing capacity at Big Timber.

\$ 500,000

3. Rebuild the major portion of the raceway system at Great Falls.

\$1,900,000

4. Repair 16 raceways at Anaconda.

\$ 230,000

5. Replace four raceways at Lewistown and remodel the original hatchery building roof.

\$ 90,000

6. Replace old, energy-inefficient residences, one each at Big Timber and Anaconda.

\$75,000 each

\$.150,000

HISTORY AND PRODUCTION OF MONTANA'S SEVEN STATE FUNDED FISH HATCHERIES

Flathead Lake Salmon Hatchery Somers, Montana

The Flathead Lake Salmon Hatchery site was selected in 1911 and was the first state fish hatchery to be constructed with state funds. The Anaconda hatchery, which was the first state fish hatchery, was reportedly built by Marcus Daley and donated to the state.

This station has been the receiving station for many wild trout and salmon taken at different spawning stations throughout the Flathead River drainage. Up to eight rainbow, cutthroat, and grayling stations have operated during the spring months. During the fall and early winter months the Somers hatchery received as many as 10 to 12 million kokanee eggs that were taken from Flathead Lake and surrounding area. These eggs were eyed and many of them sent to other state hatcheries as well as neighboring states.

In recent years the land surrounding the spring area has been sold for private development. With new homes and land use the hatchery water supply has been disrupted, siltation has increased, and the flow has been reduced to 385 gallons per minute. Livestock trampling in the spring area cause a constant silt problem and we occasionally encounter losses on the green eggs due to silt smothering them. Recent management requests are for the kokanee to be reared to 1- to 2-inch size rather than being released as newly hatched fish. Rearing the fish to a larger size requires additional rearing ponds. This cannot be accomplished at the present site with decreasing water flows. It has been recommended in the long-range building program budget that the present hatchery be closed and the operation moved to a state-owned artesian well site south of Creston, Montana. This water supply will allow us to rear greater numbers of fish to a larger size.

The annual production of the Flathead Lake Salmon Hatchery is approximately 2,500,000 kokanee salmon and cutthroat weighing 1,200 pounds.

The entire production of this station is planted in lakes in Regions 1 and 2.

Jocko River Trout Hatchery Arlee, Montana

Funds were appropriated in 1947 to purchase the Jocko River Ranch from George Ripley. Only the earth type ponds and one residence remain of the original purchase. A new hatchery building, ten 100' by 10' raceways, two residences, and a four-stall garage were constructed. In 1963 five brood ponds and a spawning house were built. This unit was designed to protect the rainbow brood from vandalism and other problems that are encountered when brood fish are exposed to public viewing.

A new modular home was purchased in 1973 to replace the dwelling that was on the site when the state purchased the hatchery. All the buildings are in very good condition and only need routine maintenance. The furnace in the hatchery building is in need of repair. This item is budgeted for and recommended for replacement in 1985.

For many years the Arlee hatchery was the home of the westslope cutthroat and Arlee rainbow broodstocks. After completion of Corps of Engineers mitigation hatchery in Lincoln County in 1979 the westslope cutthroat brood were moved to the Murray Springs Hatchery. Only Arlee rainbow brood remain at this station. Between 6.5 and 7 million rainbow eggs are produced annually. Rainbow eggs from this stock have been shipped to state and national fish hatcheries throughout the United States and have received nationwide recognition as a quality product.

The entire production of the Arlee station is rainbow. The average annual production is about 200,000 to 250,000 fish weighing 24,000 pounds.

These trout are released in Region 1 and the northern part of Region 2.

-Washoe Park Trout Hatchery Anaconda, Montana

Funds were appropriated by the legislature in 1907 to construct a fish hatchery located at Anaconda. In 1908 one residence, an ice house, and hatchery building were erected. All the original buildings have had some repair and remodeling over the years. This original residence does need to undergo major remodeling to make it energy efficient or be replaced. The ice house has been converted to a walk in freezer that has been used for fish food products that needed refrigeration. It is also used by law enforcement during hunting season to freeze confiscated game. The hatchery building has undergone major repairs and changes over the years. In general the hatchery building is good. It should be insulated to reduce heating costs.

All the concrete raceways have been badly damaged by frost and should undergo major repairs (a current cost estimate from the A & E Division is attached). Also some minor problems exist on the warm water intake and 150 feet of the water supply line at the Warm Springs Creek crossing.

All the remaining buildings are in fair to good condition and only need day to day maintenance.

The annual production of the Anaconda hatchery is about 550,000 fish weighing approximately 22,000 pounds. Rainbow and cutthroat are the major species reared. Grayling, golden trout, and brook trout are also reared at this station. The later are only raised when requested by regional fish managers.

The majority of the fish produced at this station are released in the western half of Region 3, all of Region 2, and the southernmost part of Region 1.

DEPARTMENT OF ADMINISTRATION

ARCHITECTURE & ENGINEERING DIVISION



TED SCHWINDEN, GOVERNOR

1500 EAST SIXTH AVENUE

STATE OF MONTANA

(406) 449-3104

HELENA, MONTANA 59620

December 20, 1982

RECEIVED

DEC 22 1982

FISHERIES DIVISION

Emmett L. Colley, Chief, Hatcheries Bureau Fisheries Division Department of Fish, Wildlife & Parks 1420 East Sixth Avenue Helena, Montana 59620

Re: Tank Repairs

Anaconda Fish Hatchery

Dear Emmett:

This letter is in response to your December 20, 1982, request for an estimate of the cost to repair the tanks at the Anaconda Fish Hatchery.

We estimate the total cost of repairing the sixteen tanks to be \$230,000.00. This cost includes removing some deteriorated concrete around the perimeter of the tanks, and pouring new reinforced concrete tank bottoms and walls. It is assumed that no piping work would be required.

The above cost is based on our estimate of mid-1984 construction costs, and includes full architectural services.

Please contact me if you have any questions.

Sincerely

GEORGE T. WOLAN, JR., Mechanical

Engineer Design Bureau

ld

Giant Springs Trout Hatchery Great Falls, Montana

In 1922 Montana Power Company donated the land for a fish hatchery to the department. The Giant Springs Trout Hatchery water storage tank and residence were constructed in 1922. During the Public Works Administration six concrete circular ponds, four-stall garage, shop, residence, and pump house were constructed. In 1953 the old wooden stave water tank was replaced by a 50,000 gallon concrete water tank which was built in the city park. This property is now owned by the department. In 1971 one new residence was erected on newly acquired land east of the present hatchery site.

Monies have been requested in this biennium to replace some of the circular ponds with a system that would more efficiently utilize the area. With increased storage of water by Montana Power Company the present ponds do not have adequate drainage.

Rainbow trout is the major species reared at the Giant Springs Hatchery. Other species are also reared when requested by the regional fisheries managers.

The average annual production is 580,000 to 600,000 fish weighing 31,000 pounds.

These fish are stocked in Regions 4 and 6, in the Missouri, Sun River, Teton, and Milk river drainages.

Big Springs Trout Hatchery Lewistown, Montana

In 1921 the Montana Fish and Game Commission was authorized to enter into a 99 year lease with the City of Lewistown to erect a fish hatchery at the big springs south of Lewistown. At that time one residence and a hatchery building were constructed. Part of the original hatchery building is still being used. The original house was sold and moved off the hatchery property. During the depression years two large earthen ponds were excavated and rock retaining walls This work was accomplished by the Public Works Administration. After World War II the large hatchery building was erected to house indoor raceways, also four 8' by 100' raceways were constructed. 1960 land was purchased about one mile north of the original hatchery site and 30 concrete raceways, two residences, a shop, and feed storage building were constructed. This increased the production of the Lewistown hatchery considerably, it became the largest production station in the state and continues to hold that distinction to date. One more residence was added to the hatchery in 1973.

The four concrete raceways built in the late 1940's have had extensive repairs due to settling and poor construction. The raceways need to be replaced with new structures. The original hatchery building should be tore down and replaced.

Rainbow, Yellowstone cutthroat, and kokanee are reared at the Lewistown hatchery with an annual production of 2 million fish weighing 110,000 pounds.

The Big Springs Hatchery has the greatest distribution of any state hatchery. Fish are released from there into lakes and reservoirs in all seven regions.

Yellowstone River Trout Hatchery Big Timber, Montana

In June of 1921 the Big Timber Rod and Gun Club raised \$1,000 and acquired the land and residence at the present site of the Big Timber Hatchery. They donated this acquisition to the department. During that year a small hatchery was erected to house troughs for rearing fish; several years later the hatchery was enlarged to house more troughs. The hatchery was then capable of rearing 1½ to 2 million small fish. In 1930 the hatchery building was enlarged to its present size. During 1939 the Public Works Administration constructed a three-stall garage, ice house and shop building, residence, and large dirt type raceways. Only one of these ponds is in use at this time. The other dirt type ponds have been converted to concrete brood ponds.

During 1930 through 1950 the Big Timber Hatchery was an egg receiving station to incubate brown trout, rainbow, and cutthroat eggs. The eggs were taken at spawning stations in Yellowstone Park, West Yellowstone, Harrison, and Georgetown lakes.

In 1960 this station was converted to the only domestic source of Yellowstone cutthroat. This was due to the lack of available eggs from Yellowstone Park. During the 1960's this strain of fish contacted a bacteria known as kidney disease. Due to the persistence of this disease the closure of this station almost became a reality. In the early part of the 1970's as a result of a continued effort by a new manager a new strain of cutthroat from McBride Lake was collected to begin a new broodstock. These fish also contacted kidney disease. With the use of medication and two new concrete raceways, the kidney disease was eradicated. This strain of cutthroat is becoming a very popular fish in areas where it can be used.

The McBride Lake cutthroat is the only strain of fish reared at Big Timber. Over 1 million eggs were produced in 1982, approximately one-half these eggs were shipped to other Montana hatcheries for rearing and release at a later date.

The hatchery building is in need of major repairs. A proposal has been submitted to construct a new hatchery building, a pipe line for additional water, and rearing ponds to meet the increased demand for this strain of cutthroat.

The average annual production of the Yellowstone River Trout Hatchery is approximately 580,000 fish weighing 6,000 pounds.

These fish are released in Regions 2, 3, 4, 5, and 6.

Bluewater Springs Trout Hatchery Bridger, Montana

In June 1947 the Montana Fish and Game Commission bought the Blue-water hatchery site for \$3,000. In 1949 a contract for \$69,000 was let to build a residence, garage, cold storage plant, and ten 100' by 10' concrete raceways. During 1954 one more residence was added. In 1956 a larger cold storage plant, office, and feed room was constructed. This was needed to store great amounts of beef by products to meet the demand for greater numbers of fish. Nine dirt type raceways were added later, after several years of poor production in these ponds six were converted to concrete ponds. In 1973 one more residence, shop, and truck garage was added to house the large fish distribution equipment.

Rainbow trout is the major species reared at Bluewater. McBride Lake cutthroat, kokanee, and brown trout are other species reared as needed to meet regional requests.

All the buildings, pipe lines, and ponds are in excellent condition and no expenditures are needed for repairs.

The annual production of Bluewater is approximately 850,000 fish weighing 55,000 pounds.

These fish are stocked in lakes and reservoirs in southeastern, south central, and southwestern Montana.

2-8-83

Equipment Expenditures In Fisheries Program For Fiscal Year 1982

Expenditure Detail	Amount
Agriculture and Landscaping	\$ 1,699
Construction	10
Data Processing Equipment	16,296
Household	750
Boats, Boat Trailers, & Motors	41,589
Office Equipment	5,256
Shop, Plant & Industrial	21,156
Photographic Equipment	1,033
Laboratory Equipment	3,180
Engineering	615
Trailers & Campers	6,655
Scientific Apparatus	10,027
Field Monitoring Equipment	36,962
Films	8

Total Fiscal Year 1982 Equipment Costs \$145,236

100/G

#48,000 Spent on budget, amendmenta acloted equipment.

DEPARTMENT OF FISH, WILDLIFE AND PARKS

Helena, MT 59620

eport of Upgrades from June 26, 1981 to January 21, 1983.

pgrades in career positions, resulting from changes in duties assigned to incumbents.

	•		Effective Pay
From	То	Employee	Period Ending
lerk Steno III, G 7	Clerk, Gen. Office V, G 8	Bandle, Eileen	9/18/81
Clerk Typist IV, G 7	Clerk, Gen. Office V, G 8	Hughes, Janet	9/18/81
Clerk Typist IV, G 7	Clerk, Gen. Office V, G 8	Messmer, Paula	9/18/81
lerk Typist IV, G 7	Clerk, Gen. Office V, G 8	Ruffato, Fay	9/18/81
icense Clerk II, G 7	Clerk, Gen. Office V, G 8	Watkins, Marty	9/18/81
Clerk Typist IV, G 7	Clerk, Gen. Office V, G 8	Wesen, Lois	9/18/81
Clerk Typist IV, G 7	Clerk, Gen. Office V, G 8	Zaharko, Ellen	9/18/81

Above 7 reclassifications effected by State Personnel Division after audit of similar positions at 7 regional offices.

ecretary II, G 8	Word Processing Tech, G 9	O'Hara, Fran	6/11/82
Admin. Asst. IV, G 12	Personnel Off., G 14	Price, Olive	6/25/82
aint. Worker III, G10	Maint. Worker IV, G 11	Hohn, Bill	7/23/82
lmin. Sec. I, G 10	Admin. Asst. III, G 11	Kraft, Nancy	8/6/82
Admin. Sec. I, G 10	Admin. Asst. III, G 11	Keil, Nancy	8/6/82
Maint. Wkr III, G 10	Maint. Wkr IV, G 11	Frazier, Doug	9/18/82
ec. II, G 8	Program Manager II, G 12	Eby, Chris	11/12/82
Game Area Mgr. I, G 12	Game Area Mgr. II, G 13	Alt, Kurt	11/26/82
Biol. Supv., G 16	Res. Prog. Mgr. II, G 17	Graham, Pat	11/26/82
es. Prog. Mgr. I, G 16	Res. Prog. Mgr. II, G 17	Colley, Emmett	12/11/82
According to the second			

Total Upgrades in 19 months: 17

_)4/H

Number of 310 Projects

From the time 310 became effective in July, 1976 through January, 1981 our department biologists participated in 2,991 project inspections. This is an average of about 650 per year for this 4½ year period. These are concentrated in Regions 1 through 5 and have probably averaged 100-125 per year in Regions 1, 2, 4, and 5 and almost 200 per year in Region 3.



CLASS SPECIFICATIONS

CLASS CODE	\	041030
GRADE		15
AST UPDATED		3-14-75

OCCUPATIONAL GROUP

Biological Sciences

MONTANA CLASSIFICATION TITLE

Fisheries and Wildlife Biologist

IV

DESCRIPTION OF WORK

GENERAL DUTIES: Performs supervisory and professional activities in carrying out major regional or statewide segments of broad and complex biological management or research studies.

SUPERVISION RECEIVED: Works under general supervision of an administrative superior.

SUPERVISION EXERCISED: Exercises supervision over professional personnel as assigned.

EXAMPLE OF DUTIES

Conducts research, management or development projects in assigned area of responsibility or assists in the administration of a fisheries or wildlife management region; supervises the compilation and analysis of data obtained from surveys and investigations; supervises the preparation of work plans and reports as required; keeps current in management and related fields through literature, meetings, workshops and correspondence; prepares budgets for assigned area of responsibility and directs activities within budgetary limitations; explains management principles and objectives at meetings and through other communication media in accordance with department policy; inspects planned or proposed programs involving habitat in assigned area of responsibility and reports on probable effects of such projects; performs related work as required.

MINIMUM QUALIFICATIONS

KNOWLEDGES: Thorough knowledge of the techniques of investigation of plant and animal communities, methods of statistical analyses, report writing and administrative and supervisory principles.

SPECIAL SKILLS: Skill in the operation of fisheries or wildlife survey gear and instruments.

ABILITIES: Ability to communicate effectively verbally and in writing; to prepare detailed plans and specifications and to budget for effectively carrying out projects; to establish and maintain effective working relationships with employees and the public; to work out of doors under adverse working conditions. EDUCATION: Master's degree in Fish and Wildlife Management or related biological science.

EXPERIENCE: Three years experience in fisheries and wildlife management or research biology, one year of which must have been as a Fisheries and Wildlife Biologist III

0R

Any equivalent combination of education and experience.

s	All	As Noted	Below	All	Except	Those	Noted	Below
NCIE								
25.5					•			



CLASS **SPECIFICATIONS**

	CLASS CODE	041029
į	GRADE"	14
ı	LAST UPDATED	3-14-75

GROUP

Biological Sciences

MONTANA CLASSIFICATION TITLE

Fisheries and Wildlife Biologist III

DESCRIPTION OF WORK

GENERAL DUTIES: Performs professional activities in carrying out assigned segments of broad and complex biological management or research studies. SUPERVISION RECEIVED: Works under general supervision of an administrative superior. SUPERVISION EXERCISED: Exercises supervision of personnel as assigned.

EXAMPLE OF DUTIES

Conducts assigned management and development projects, surveys, and investigations; collects, compiles, and analyzes data obtained from surveys and investigations; prepares work plans and reports as required; keeps current in management and related fields through literature, meetings, workshops, and correspondence: explains management principles and objectives at meetings or through other available media in accordance with department policy; inspects planned or proposed programs for projects involving habitat in an assigned area and reports on the probable effects of such projects; performs related work as required.

MINIMUM QUALIFICATIONS

KNOWLEDGES: Considerable knowledge of the techniques of investigation of plant and animal communities, methods of statistical analyses and of report writing. SPECIAL SKILLS: Skill in the operation of fisheries or wildlife survey gear and instruments.

ABILITIES: Ability to communicate effectively verbally and in writing, to prepare detailed plans and specifications, to prepare reports; to establish and maintain effective working relationships with employees and the public; to work outdoors under adverse working conditions.

EDUCATION: Master's degree in Fish and Wildlife Management or related

biological science.

EXPERIENCE: Two years of experience as a Fisheries and Wildlife Biologist III.

OR

Any equivalent combination of education and experience.

ES		AII		As Noted	Below	All	Except	Those	Noted	Below
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ART

POSITION DESCRIPTION

Personnel Use Only

(PIQ and PD combined 7/79)

The Position Description should provide a detailed statement of the duties and responsibilities assigned to an employee. As the building block of an effective personnel administration program, the Position Description must be completed to assist in classification, pay, recruitment, selection, performance evaluation, training, staffing analysis and other management functions. Thus, in order for this form to be effective, adequate time and effort must be expended in following its instructions, in understanding its intent and in completing it.

Each agency may decide who should complete the form. Considerations that affect this choice are the circumstances for completing it, the desire to stimulate employee participation and interest, and the authority and responsibility of management to determine the duties and responsibilities of positions. The form does require that management complete the sections concerning physical demands, supervision received and requirements. Signature blocks have been provided to allow larger agencies several levels of review and approval. Each agency should establish its own policy and procedure regarding the review and approval of the form.

Before proceeding, PLEASE READ THE ENTIRE FORM to understand how sections relate to each other and to avoid repeating information. If there are any questions about completing this form, contact your agency personnel officer or the State Personnel Division at 449-3871.

PLEASE TYPE OR PRINT CLEARLY Position No. Class Code Grade Current: Fish & Wildlife Biologist III 041029 14 12003 1 Classification Proposed: Fish & Wildlife Biologist 1 041030 Same Department, Agency or University Unit Division or equivalent SUPERVISOR / MANAGEMENT Fish, Wildlife & Parks Ecological Services Agency Bureau or equivalent Section or equivalent Unit or equivalent Baseline Studies Bureau **Building & Street Business Telephone** Room Number Address Helena FWP 449-2602 Employee Prepared by: Rodney K. Berg Name of Employee: Supervisor/Management Describe the activity, function, product or service of the office or work unit in which the position is situated: In addition to his full-time position on a federal aid project investigating the fishery resource of the middle Missouri River and supervising one grade 10 and one grade 8 employee, this biologist has been supervising a contract project funded by the Bureau of Land The basic objective of this project is to determine instream flow needs necessary to maintain the section of the (Continued EMPLOYEE DUTIES AND RESPONSIBILITIES OF POSITION: Describe the duties, tasks and responsibilities of the position. Begin with a general statement of what the position does and then organize the description into duties and tasks beginning with the most important duties. A duty is a large segment or category of work performed and can be used to group related tasks. Task statements are effectively written by using the following format: an action verb, an object, an output and how accomplished. Use language that will enable a person not familiar with the work of the position to understand what is taking place in the work activities described. Avoid words that are not graphic, such as "assists", "develops", "handles", "processes" and "works with". Complete this section by estimating the percent of time spent on each duty. The incumbent is responsible for determining the occurrence, COMPLETED abundance and diversity of the fishery resource in the middle Missouri River project area. Similar information, as well as instream flow data, will be collected for the Holter-to-Great Falls reach of the Missouri. In addition, he is supervising the operations of the instream flow project funded by the Bureau of Land Management. Objective of this project is to determine streamflow requirements for the fishery resource, as well as wildlife, and to establish the framework for a hydraulic model upon which flow

quantities will be based. Work on this type of project is largely innovative, and it is necessary to provide the BLM project biologist

Work performed under the incumbent's federal aid project consists primarily of obtaining fish population estimates by electrofishing, seining and gill netting. Electrofishing in large rivers is still largely innovative, and requires extra effort to obtain information

with a great deal of technical assistance.

on paddlefish utilization of the mid-Missouri area through radio tagging of individual fish. This radio telemetry will be used to determine barriers to upstream passage of paddlefish, streamflow levels required to negotiate those barriers, spawning locations and periodicity of spawning runs.

Selected fish species will be tagged, and return data will indicate utilization by fishermen in an effort to document economic value of the fishery resource. Information will be gathered on game and nongame fish species, as well as forage fish; on spawning, incubation and rearing areas, and this information will be correlated to instream flow needs. Incidental water quality data will be obtained.

A detailed, technical report is required for the biologist's federal aid project each year; he will also supervise preparation of the instream flow report and provide technical expertise.

5. continued from page 1

Missouri River designated by Congress as a wild and scenic river. In performance of this contract, it is necessary for this biologist to supervise a grade 13 biologist and another grade 8 temporary employee.

(Attach additional sheets if necessary)

SUPERVISION EXERCISED: List the position number and title of positions directly supervised.

Position No.	Title	Position No.	Title
32801	Fish & Wildlife Biologist		
32802	Fisheries Field Worker I		
22401	11		
22402	"		

Describe the nature of supervision exercised in the following areas: setting policies, objectives, work plans, work methods and priorities; assections and priorities; assections are setting policies, objectives, work plans, work methods and priorities; assections are setting policies. review, evaluate, train, hire, discipline.

Objectives of both projects are given in the contracts; work plans and methods are outlined and monitored by this biologist. directly supervise the biologist in charge of the instream flow project and the two temporaries working on his own federal aid project, as well as furnishing technical expertise and general guidance to the temporary on the instream flow project.

EQUIPMENT OR MACHINERY USED: Indicate the percent of total work time.

Туре	%	Туре	×
Electrofishing boat, motors,			
motorcycle, 4-wheel drive vehic	le		
nets, seines, traps, flow		1	
monitoring and water quality			
equipment			

	9'	PERSONAL CONTACTS							
	•	Describe the types, reasons for a as a guide:	nd frequency of perso	nal contacts necessary to per	rform the work of this position by u	sing the following			
		<u>wно</u>		Ž.	<u>vhy</u>	FREQUENCY			
		1	ele al public e business	to provide information to make arrangements to negotiate to persuade	to gather information to elicit cooperation to advise etc.	daily weekly ' monthly yearly			
		Indicate whether contacts are with	nin work unit, within a	agency or external	Sometiment of the second of th	: . 			
continued	The biologist will make professional contacts with clerical ment and professional personnel within the DFWP and USFWS. will be the direct field contact with professionals within BLM, source of funding for the instream flow project. He make contacts with the public through supervision of creek which may be carried out by temporary employees on both prand prepare and present public information programs.								
-	10	DECISIONS AND COMMITMEN	ITS: SCOPE AND E	FFECT					
PART		Describe areas, kinds and impact of decisions and commitments; the effects, influence and significance of the work of the position; the consequence of error and subsequent accountability and limitations on the extent and finality of actions and decisions. As with all contract work, time for these projects is limited. It is necessary to see that all work proceeds exactly on schedule, that needed information is obtained and properly documented and that a suitable report is prepared at the end of the projects to ensure future contracts with the federal government.							
	11	To the best of my knowledge, the duties & responsibilities described herein are accurate & complete	d Employee	In K Barg	Date: Jak,	3 1980			
∐:	12	IMMEDIATE SUPERVISOR:	Name: All G	Thoxein	Title: Reg #4 Say	rewison			
SUPERVISOR/MGMT	ADDITIONAL COMMENTS OR INCORRECT ITEMS:								
	14 SUPERVISION RECEIVED								
Ž		Describe how this position is supervised by using the following as a guide:							
Αά.	 How is work assigned, i.e., in what format, by whom, etc.? How are work methods, procedures and priorities determ What guidelines, manuals, procedures & references are available & how are they used? What assistance is available from o i.e., supervisor, coworkers, outside specialists, etc.? How is work reviewed, i.e., by whom, how often, by task, by objective, methods, etc.? 								
PART II: TO BE COMP		procedures to be determined by the literature is an is innovative. received from, or	e followed. he biologis vailable fo Technical other regions	Work methods t in charge of r reference, b assistance is nal fisheries he Fisheries D	tract, as well as and priorities a the project. So ut a great deal o given to, as well personnel. Assis ivision and Ecolo	re me f the work as tance from			

••

15	KNOWLEDGES, SKILLS AND ABILITIES
	Describe the knowledges, skills and abilities (KSA's) that are specifically job related, essential to perform the work of this position and are essential for appointment to this position. Do not include those things typically learned on the job.
	The abilities to plan, to write clearly and concisely, to get along well with the public, and to lead others are all necessary for the individual in this position. Because of the nature of the work involved, this person also needs a certain amount of mechanical ability to make minor repairs to electrofishing equipment. A great deal of technical knowledge is required to write a scientific report that can be understood by the general public as well as professionals. Which of the above can be used to distinguish superior performance?
	Probably the technical knowledge, quality of the finished report, and ability to design innovative equipment features would distinguish superior performance.
16	
16	Describe specific kind, amount and level of education (curriculum, courses, specialization) and experience that indicate the source of KSA's and that can be used in selecting a person for this position.
	Master's degree in fish and wildlife management plus several years of field experience on a large river project. (Sampling techniques are quite different on small streams.)
17	PHYSICAL DEMANDS AND WORKING CONDITIONS -
	Cescribe any physical demands, working conditions or job hazards that affect how the incumbent performs the job or that impose additional requirements in selecting a person for the position or that affect the complexity and nature of work. This individual should be in good physical condition, as electrofishin equipment is very heavy, it is necessary to load boats on trailers, etc: Also, working with electricity in water can be dangerous.
18	To the best of my knowledge, the statements in Parts I and Signature: Supervisor's Signature: Date: 7/7/80
	ADMINISTRATIVE REVIEW AND APPROVAL: Agency option except number 3
	Comment: Additional comments attached 1. Signature: Date:
	Comment: Additional comments attached
	2. Signature: Date:
	Comment: Additional comments attached

STATE OF MONTANA DEPARTMENT OF ADMINISTRATION

DESCRIPTION

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Person Ise O		
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	Present Classifica	- 1										sition No. 307/15833	
,	•		Department Fish and	Game		•	Division Wildlife						
'	Agency Bureau Research				Section		•	Unit				÷	
3	Address		City Bozeman	[Building & Stree Research P	t ark Buil	ding, MSU	Campus	Room	Number		Business Tel. 994-3285	
4	Division Use Only	T wek	itle	to the day of	•			Class Cod	8	Grade	Position	No.	
5	Perso Divis	21 August	Desk /	Audit	Field Aud	it	Effective Da	te of Action:					-
	General	State	ment of Duites	and Deepe	acibilities (Male	- duales and .		4					

POSITION

Performs supervisory and professional activities in carrying out statewide programs on fur-bearing mammals. Works under the general guidance and direction of an administrative supervisor. Is responsible for fur-bearing mammal research study design and for supervision of subordinate research personnel.

Specific Statements and Examples of Duties and Responsibilities (itemized examples and specific statements)

Supervises, coordinates and conducts management and research studies on fur-bearing mammals inhabiting Montana. At present, statutory definitions include the following categories and species:

- (1) fur-bearing animals -- beaver, bobcat, Canada lynx, fisher, marten, mink, muskrat, otter (river) and wolverine;
- (2) predatory animals -- covote, weasels and skunks; and
- (3) nongame animals -- badger, foxes and raccoon.

Evaluates, modifies and designs statewide furbearer harvest surveys; these currently include annual fur-trapper harvest and fur-dealer surveys.

Designs and coordinates statewide furbearer field surveys appropriate to increasing the knowledge of individual species occurrence, distribution and population trends.

Designs, supervises and conducts field research studies to determine seasonal habitat requirements of all fur-bearing mammals in the state, with immediate emphasis on bobcat, Canada lynx and river otter.

Supervises, collects and analyzes the necessary biological specimens for determining food habits of each fur-bearing species; also supervises and assists other department personnel in determining the distribution and status of prey items in these food habits.

Is responsible for data compilation, analysis and reporting of all facets of incumbent studies; explains all such findings to other department personnel, other concerned state and federal agency personnel, trappers, fur-dealers, sportsmen and the general public.

Provides liaison between the department, State Livestock Board and other state and federal agencies on matters pertaining to fur-bearing mammals.

Coordinates and assists department wildlife management and law enforcement personnel in formulating annual fur trapping regulations.

Coordinates efforts and prepares documents on evaluations of those fur-bearing mammal species recommended for addition or deletion to state and federal endangered, threatened, furbearer and predatory animal lists. Maintains the reference library and communications with the department's nongame biologist and other wildlife biologists necessary to perform these duties.

,	Specific Statements and Examples of Duties and Responsibilities	Continue	ed:		
			· · · · · · · · · · · · · · · · · · ·	and the same of th	
					die derfin
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	•				
ρ	Title and Number of Positions Supervised				
	Title No.		tle		No.
	College graduate research students 1-2 (annually)			•	
i	(amazz)				
	•				
-					
-	Describe Nature of Supervision (How are work assignments made b			pprove, recommend appro-	val
	of subordinates' work; does incumbent hire, recommend discharge,	evaluate	performance, etc./		
	Graduate student research projects to be	desig	ned and supervised i	n the field by t	he
	incumbent. All work assignments to 26 Fi				
	managers on statewide projects, except has				
	close cooperation and coordination with re	egiona	al dame manaders		
		23.221	at 3 mile management		
					
10	Equipment or Machinery used				
	TYPE	%	TYPE		0%
	Desk Calculator	10	·		
	Programmable Calculator	5			
	Computer	10			
	Hand and power tools	5	•		
11	References, Manuals and/or Guides available to assist incumbent	in perfo	rmance of work (include statut	es, regulations, etc.)	
	Montana Administrative rules				
	Montana Department of Fish and Game regula	ations	3		
	University and Department libraries			·	
					

4	Technical Assistance Available (i.e. supervisor, specialists, etc. how	util	1200	d, i	. e .	pro	phlem solving, planning, technical advice or review)
	Assistançe is available from all department		dn	nin	iis	str	ators, wildlife biologists and law
İ	enforcement personnel, as well as from simi						
	agencies.						
١							
1							
13	Work Assignment Methods and Procedures (How is work assigned to and kinds of decisions already made.	po oq	siti	ion;	wl	hat	form is it in (such as penciled lay out, rough draft, etc.)
1	General study plans and objectives for spec	ia	1	an	d	st	atewide projects are developed in
	cooperation with division supervisors and r		~				
Ì	work plans are conducted by the incumbent o						
t			1				
1							
-							
14	Consequence of Error and How Errors are Discovered by Others (wh	hat	are	th	9 r.	ami	fications of error, i.e. costs in dollars, public relations,
1	Errors in study designs, procedures or impl			·+ a	+ +	ior	could lead to ill-conceived
ł	management programs, losses in federal fund						
1	trapping within the state. Federal regulat						
ŀ	and quantities of scientific information in						
	pelts of three furbearers; they are continu tions and numbers of species. Poor judgmen and national political implications.	iin	g	ef	£c	ort	s to expand these authorities, regula-
15	Areas of Decisions and Commitments (Is the employee free to speak	k fo	r t	he .	age	ncy	, can employee commit state, agency, or unit to a
	specific course of action—how is this accomplished?)						
	The incumbent commits department time and e	co	no	mi	C	re	sources to field and administrative
	actions. Decisions of this employee will d						
	activity of about 3,600 persons and the eco						
	number of unlicensed fur-takers.						
						•	
16	Personal Contacts (Type, nature, and frequency of contacts with per	rson	s o	uts	ide	of	the agency)
1	. '	A	В	c	Ь	E	PURPOSE
Ì	Cierical Staff	x	_	-	-	·	Report preparation & correspondence
1	Professional Staff			x	-	+	Discuss techniques & evaluations
1	Management Staff		_		-	7	Survey activities
1	Agency Directors, Chairpersons, etc.	\vdash		-	-	+	Discuss findings & obtain direction
Ì	Legislators	11		 - -	-	1	Explain findings & department position
1	Private Sector Professional Staff			-	-	1	Explain findings & department position
	Private Sector Managers	1				1	Explain findings & department position
ł	General Public			x	-	_	Explain findings & department position
- 1	Others (1-1			-	-	
ł	*(A) Many times daily; (II) Once or twice a day. (C) Several times a	wee L_I	k:	(D)	Se	L	al times a month: (E) Several times a year.
-	(27) many times tions, till Once of twice a day, to Several times a						
17	Comments on Personal Contacts needing further explanation: Furbearing mammal research and management p	ro	jе	ct	s	re	quire frequent contacts with
	Department, University, State Livestock Boa	rd	a	nd	£	ed	eral agency personnel. Fur trappers
	and dealers will be contacted personally th	ro	ug	ho	ut	t	he year and via harvest surveys
	once a year.						
- 1							

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10	Working Conditions-an	id Physical Demands.	Explain phys	ical-factors	which affect the position - use exam	nples where appro	priete.	i
١	Field efforts	, and frequen	ntly admin	nistrat	ive efforts, will nece	ssarily exc	ceed 8	hours
					will probably be norm			Since
		•			program, its initial			equire
			-		program, its initial	Tenovacion	may 1	equite
	considerable	physical and	mental s	tress.				
_	·							
19	Supervision Level, De		·					
	Works under t	he general s	upervisio	n of th	e Fisheries and Wildli	fe Biologi:	st Sup	ervisor,
	Research Bure	au. Wildlife	Division					
			•					
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				· ··············				
	I m m a di a ta	Incumbent			Title Figh & Wildlife	Class Code	Grade	Position No.
	19A. Supervisor	John P. Weid	gand		Title Fish & Wildlife Biologist Supervisor, Research Bureau	041031	16	78
-		<u> </u>			Research Bureau	012002	1-0	L
20	Minimum Education				Specialization and Coursework. If form duties of the position, indicate			
				1	Torri duties of the position, indicat	specia		
	Grade School	High School	College	_	Academic training in	wildlife I	manage	ment or
	Ability to read & write	8 9 10 11 12 1	2 3 B M F	Ph	closely related fiel	d		
			v					
į		4-4-1-1-1-						
		•						
21	Minimum Experien	ce Required to perfo	orm Duties of P	osition:		**************************************		
	Three years e	xperience in	wildlife	manage	ment or research, one	year of wh	ich mu	ct he
					es and Wildlife Biolog		ICII MO	isc be
								· · · · · · · · · · · · · · · · · · ·
22	Special Qualificatio	ns (licenses, certifica	tes_etc.)			·		
								
	N/A							
			·		· · · · · · · · · · · · · · · · · · ·			
23	Tarred Bar Sant	yes_X_		٠. م (۔۔۔	(iii) a	С.		•
23	Travel Required	· · · · · · · · · · · · · · · · · · ·	no	Daily			times a m	
24	Knowledge, Skills a perform the work of	and Abilities (Describ	e knowledges,	abilities, ch	aracteristics, skills, etc. which are sp	ecifically job rela	ted and e	ssential to
	periorii the work o						- · · · · · · · · · · · · · · · · · · ·	
	A general know	wledge of wil	ldlife mar	nagemen	t supplemented with in	timate know	vledge	of certain
	1				urbearers or predators	•		
	independently	, gather and	analyze d	data, p	repare technical repor	ts and guid	de gra	duate
	students.							,
25	Additional desirable	knowledges, skills,	and abilities the	et might co	ntribute to outstanding job perform	Ance		
					od working relationshi		20 x 0m	nloves
				carn go	od working relationshi	ps with oth	ier em	proyees,
	sportsmen and	the general	public.					
								
ገ6	Signature of Agency	y Director		Date	Signature of Administrator, Per	sonnel Division		Date
ı			•					

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CLASS SPECIFICATIONS

CLASS CODE	041031
GRADE *	16
AST UPDATED	3-14-75

GCCUPATIONAL

Biological Sciences

MONTANA CLASSIFICATION TITLE

Fisheries and Wildlife Biologist Supervisor

DESCRIPTION OF DUTIES

GENERAL DUTIES: Performs administrative, supervisory, and professional activities in directing a total regional fisheries or wildlife management program or a statewide program in a discrete phase of fisheries or wildlife management. SUPERVISION RECEIVED: Works under the general guidance and direction of an administrative superior. SUPERVISION EXERCISED: Exercises supervision over professional personnel.

EXAMPLE OF DUTIES

Supervises and conducts all fisheries or wildlife research and management projects in assigned region or statewide area of responsibility; keeps current in management and related fields through literature review, meetings, workshops, and correspondence; budgets for and develops projects; compiles and analyzes management data in region; suggests research projects, inspects other agencies' development projects affecting fish or wildlife habitat and analyzes the effect of such projects; explains regional fish or wildlife projects and problems at public meetings; establishes effective working relations with agencies and organizations within region or other area of responsibility; performs related work as required.

MINIMUM QUALIFICATIONS

KNOWLEDGES: Thorough knowledge of the techniques of investigation of plant and animal communities, methods of statistical analyses and of report writing. Working knowledge of fish or wildlife cultural methods, including disease and nutrition, and of administrative and supervisory principles.

SPECIAL SKILLS: Skill in the operation of fisheries or wildlife survey gear and instruments.

ABILITIES: Ability to establish and maintain effective working relationships with employees, other agencies, and the public; to communicate effectively verbally and in writing; to prepare detailed plans, specifications, and budgets and to conduct operations within approved budgets; to conduct management or research investigations and interpret results.

EDUCATION: Master's degree in Fisheries or Wildlife Management or related biological science.

EXPERIENCE: Three years of progressively responsible experience in fisheries or wildlife management biology, one year of which must have been as a Fisheries and Wildlife Biologist III.

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Any equivalent combination of education and experience.

		AII			A:	s Noted	Below	,		All	Except	Those	Noted	Below
SER			ę											
P G C														

POSITION DESCRIPTION

Personnel Use Only

(PIQ and PD combined 7/79)

The Position Description should provide a detailed statement of the duties and responsibilities assigned to an employee. As the building block of an effective personnel administration program, the Position Description must be completed to assist in classification, pay, recruitment, selection, performance evaluation, compared to an effective and other management functions. Thus, in order for this form to be effective, adequate time and effort must be expended to accompletely the effective, adequate time and effort must be expended to accompletely the effective and other management functions. Thus, in order for this form to be effective, adequate time and effort must be expended to accompletely the effective and other management functions. Thus, in order for this form to be effective, adequate time and effort must be expended to accompletely the effective and other management functions. Thus, in order for this form to be effective, adequate time and effort must be expended to accompletely the effective and other management functions. Thus, in order for this form to be effective, adequate time and effort must be expended to accompletely the effective and other management functions.

Each agency may decide with should complete the form. Considerations that affect this choice are the circumstances for completing it, the desire to stimulate employee participation and interest, and the authority and responsibility of management to determine the duties and responsibilities of positions. The frame dues received that management complete the sections concerning physical demands, supervision received and requirements. Signature blocks have been provided to allow larger agencies several levels of review and approval. Each agency should establish its own policy and procedure regarding the review and approval of the form.

Before proceeding, PLEASE HEAD THE ENTIRE FORM to understand how sections relate to each other and to avoid repeating information. If there are any question by the proceeding this form, contact your agency personnel officer or the State Personnel Division at 449–3871.

Ţ 11	on. I	there are any qu	pestably 600 Mbmpleting this form, contact your agency personnel officer or the State Personnel Division at 449–3871. PLEASE TYPE OR PRINT CLEARLY
			Title Glass Code Grade Position No. 041031
	1	Classification	Fisheries & Wildlife Biologist Supervisor 16 13701
-			Department, Agency or University Unit Division or equivalent
ES	2	Agency	Department of Fish, Wildlife and Parks, Fisheries Bureau or equivalent Section or equivalent Unit or equivalent
E		ļ	Fisheries Management Region 7
AG	3	Address	City Building & Street Room Number Business Telephone
Y	3	Address	Miles City Box 430 232-4365
R/M	4	Prepared by:	Employee Supervisor/Management Name of Employee: Allen A. Elser
SO		Describe the ac	tivity, function, product or service of the office or work unit in which the position is situated:
OR SUPERVISOR / MANAGEMENT	5	manageme developr region.	ional Fisheries Manager plans and supervises the fisheries ent program in the region. He conducts management and mental projects; surveys and fisheries research in the Decisions are made concerning field activities, budgets agement recommendations.
Æ	6	DUTIES AND	RESPONSIBILITIES OF POSITION:
O BE COMPLETED BY EMPLOYEE		organize the diperformed and verb, an object to understand "handles", "pr The Region of fisher are desirand associanalyzed regulation plant	duties, tasks and responsibilities of the position. Begin with a general statement of what the position does and then escription into duties and tasks beginning with the most important duties. A duty is a large segment or category of work can be used to group related tasks. Task statements are effectively written by using the following format: an action to an output and how accomplished. Use language that will enable a person not familiar with the work of the position what is taking place in the work activities described. Avoid words that are not graphic, such as "assists", "develops", occases" and "works with". Complete this section by estimating the percent of time spent on each duty. Lonal Fisheries Manager is responsible for the management eries in streams, lakes and ponds of the region. Studies agned, conducted and supervised to evaluate fish populations ociated habitat. Resulting information is compiled, and technical reports prepared. Decisions on fishing ones are made and recommendations are presented. Proposals ting fish are reviewed, updated and presented.
PART I: T		effects projects of state this jur and comm	itat planned or proposed and reports on the probable of such projects on fish habitat. The progress of these is followed to prevent damage to fish habitat. Enforcement and federal laws protecting aquatic habitat falls under isdiction. Environmental Impact Statements are reviewed ented on. Initiative must be shown since most tasks are d without direct supervision. The science of fisheries (continued)

management dictates that creative and original ideas be designed and carried out. The resource manager must be able to visualize possible effects of developments and make decisions which will reduce the impacts.

Fishery management plans, programs and projects are explained and discussed at meetings, conferences and workshops. This maintains effective working relations with state and federal agencies, landowners, sportsmen, and the public. Legislation is suggested which will maintain or improve the fishery resource. The Regional Fisheries Manager must be familiar with and able to speak effectively about normal phases of the Departments operations.

The Regional Fisheries Manager performs administrative duties: making recommendations regarding selection and placement of personnel; budgets are prepared and implemented; fisheries field personnel are supervised and job plans reviewed periodically with them. The regional fisheries file is maintained and correspondence dealing with fisheries is answered. Recommendations are made regarding acquisition of land and water areas for public fishing access.

Decisions and recommendations of the Regional Fisheries Manager influence the quality of sport fishing and habitat preservation. Availability of quality fishing is important to the anglers of Montana and affects public satisfaction and support. Errors in judgement could result in poor fishing and temporary or permanent loss of fish habitat, loss of public access to private lands, introduction of undesirable species and (see attached sheet)

7 SUPERVISION EXERCISED: List the position number and title of positions directly supervised.

Position No.	Title	Position 119.	Title
33708	Fisheries Fieldworker II	33709	Laborer I
		33703	Laborer I
33707	Fisheries Fieldworker I		
33701	Fisheries Fieldworker I		
33710	Laborer II		

Describe the nature of supervision exercised in the following areas: setting policies, objectives, work plans, work methods and priorities; assign, review, evaluate, train, hire, discipline.

Policies and objectives are established by the Regional Fisheries Manager and are given verbally through instructions and assignments. Work plans and techniques used in the field are reviewed and discussed periodically. Since it is important to use up-to-date methodologies, literature dealing with fisheries field work is often provided. Priorities are also reviewed, evaluated and discussed. Applications are reviewed and interviews are conducted; decisions regarding hiring or discharging are made by the Regional Fisheries Manager and recommendations are made to the Division Administrator. Compilation of data and completion of (see attached sheet)

8 EQUIPMENT OR MACHINERY USED: Indicate the percent of total work time.

Туре	*	Type	%
Water sampling apparatus			
Fish collection gear (nets,			
seines, shockers)			
Microscope & microprojector			
Boats and outboard engines			

9	PERSONAL CONTA	CTS								
	Describe the types, r as a guide:	easons for and frequency	of personal contacts necessary to per	form the work of this position by	using the following					
	Wi	10	. <u>w</u>	<u>HY</u>	FREQUENCY					
	clerical professional management	clientele general public private business etc.	to provide information to make arrangements to negotiate to persuade	to gather information to elicit cooperation to advise etc.	daily weekly monthly yearly					
	Indicate whether con	tacts are within work unit	t, within agency or external							
	times daily Professiona is contacte for plannin preparation times a mon contacts the	c.for typing, all staff with ded daily to deg, data procof reports. Ith, for an ele Regional F	he work unit and ag filing, information in the work unit, a iscuss fisheries an essing, impact revi The Management st exchange of information isheries Manager an provide information	n and data proces agency and other development process, interpretations contacted ion. General pund is also contacted	sing. agencies ojects; on and several blic ted:					
10	DECISIONS AND C	OMMITMENTS: SCOPE	AND EFFECT							
			s and commitments; the effects, influ accountability, and limitations on t							
	Decisions and recommendations of the Regional Fisheries Manager influence the quality of sport fishing and the degree of habitat preservation. Availability of quality fishing is important to the anglers of Montana and affects public satisfaction and support. Decisions and recommendations influence actions of other agencies, industry and private landowners in terms of activities which affect fish habitat and water quality. Major policy decisions are made by the Commission or by the Director and his staff; the Regional Fisheries Manager can speak for the Department (continued-see attached sheet)									
11	To the best of my kni duties & responsibilition herein are accurate &	es described Employe		Date: Jeb	6,1981					
12	IMMEDIATE SUPER	VISOTI Name: 1	eith G. Seaburg	Title: Regional Su	pervisor					
13	ADDITIONAL COM	MENTS OR INCORRECT	CT ITEMS:							
14	SUPERVISION REC	EIVED	4							
	Describe how this pos	ition is supervised by usin	g the following as a guide:							
ADDITIONAL COMMENTS OR INCORRECT ITEMS: None 14 SUPERVISION RECEIVED Describe how this position is supervised by using the following as a guide: 1. How is work assigned, i.e., in what format, by whom, etc.? 2. How are work methods, procedures and priorities of 3. What guidelines, manuals, procedures & references are available & how are they used? 4. What assistance is evailable fi.e., supervisor, coworkers, outside specialists, etc.? 5. How is work reviewed, i.e., by whom, how often, by task, by objuties are made by myself as Regional Supervisor or Fisher Division Administrator either verbally or written. Duties are generally promote and independent of supervision but I am kept										
	Division Adegenerally p	ministrator e erformed inde	myself as Regional either verbally or ependent of superviand completed tasks	written. Duties sion, but I am k	are					
- 1	2 Assignments		the framework of ma	ior Department n	olicies					
	and need co		lexibility regardin							

	15	KNOWLEDGES, SKILLS AND ABILITIES
		Describe the knowledges, skills and abilities (KSA's) that are specifically job related, essential to perform the work of this position and are essential for appointment to this position. Do not include those things typically learned on the job.
		This position requires extensive experience and knowledge in the fields of limnology, ecology and fisheries management, must be familiar with Department operations and policies and demonstrate administrative ability to influence and deal effectively with associates, members of other agencies and the public. It also requires the ability to write and speak effectively. Certification as a Fisheries Scientist by the American Fisheries Society is Which of the above can be used to distinguish superior performance? advantageous.
ned	16	EDUCATION AND EXPERIENCE
continued		Describe specific kind, amount and level of education (curriculum, courses, specialization) and experience that indicate the source of
==		KSA's and that can be used in selecting a person for this position.
RT I		This position requires a master's degree in Fish and Wildlife
PAF		Management or a closely related field and three years of experience in fishery and aquatic investigations.
	17	PHYSICAL DEMANDS AND WORKING CONDITIONS
		Describe any physical demands, working conditions or job hazards that affect how the incombent performs the job or that impose additional requirements in selecting a person for the position or that affect the complex or any nature of work.
		This position requires the ability to work outdoors in inclement weather under adverse conditions; strength adequate to handle boats, motors, generators and fish sampling tools is also required.
	18	To the best of my knowledge, the statements in Parts 1 and II are accurate and complete. Supervisor's Supervisor's Signature: Full Sealing Date: 2/6/8/
		ADMINISTRATIVE REVIEW AND APPROVAL: Agency option except number 3
		Comment: Additional comments attached
/AL		1. Signature M. W. Makie; Title: Flat. Dev. admus Date: 17 Let 81
APPROVA		Comment: Additional comments attached
===		2. Signature: Title: Date:
PART		Comment: Additional comments attached
9		
		3. Agency Director or Designee: Date:

- (6) and unwise expenditure of sportsmen's dollars. Acting within policy established by the Fish and Game Commission, decisions are made in a variety of situations.
- (7) technical reports is closely supervised and reviewed.

 Manpower and equipment needs are coordinated by the
 Regional Fisheries Manager.
- (9) on stocking fish, on regulations, on problems which might influence their fishing opportunities. Landowners are contacted monthly, to provide information and to advise them on laws and regulations. State legislators are contacted yearly to discuss and explain Department programs and actions. Professionals from other state and federal agencies are contacted several times a month, to review projects, to gather information and to elicit cooperation.
- (10) within this policy framework and within the limitations of sound professional judgements.

Errors in professional judgement would misrepresent the status of the resource and could result in unwise decisions. This would result in unwise resource management, poor fishing, temporary or permanent loss of fish habitat, loss of public access to private lands, poor allocation of funds and public relations problems for the agency.

- (14) 3. Montana Fish and Game laws; Federal Aid in Fish and Wildlife Restoration Manual; instructions for Lake and Stream Surveys; Literature dealing with fisheries studies are available and are reviewed periodically.
 - 4. Technical assistance is available upon request.
 - 5. Work is reviewed, evaluated and approved through discussions and written reports.

POSITION DESCRIPTION

Personnel Use Only

(PIQ and PD combined 7/79)

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Before proceeding, PLEASE READ THE ENTIRE FORM to understand how sections relate to each other and to avoid repeating information. If there are any questions about completing this form, contact your agency personnel officer or the State Personnel Division at 449-3871. PLEASE TYPE OR PRINT CLEARLY Position No. Class Code Grade Current: Fish & Wildlife Biol. Supr. 041031 16 12002 1 Classification Same as above Department, Agency or University Unit Division or equivalent EN <u>Fish, Wildlife & Parks</u> Ecological Services 2 Agency Bureau or equivalent Section or equivalent Unit or equivalent MANAGEM Baseline studies City **Building & Street** Room Number **Business Telephone** 3 Address Lewistown - Contact FWP, Helena 449-2602 Employee Kerry Constan Prepared by: Name of Employee: Supervisor/Management SUPERVISOR Describe the activity, function, product or service of the office or work unit in which the position is situated: This biologist supervises three federal aid projects totaling \$110,000 which investigate the wildlife and fisheries resources in the Little Rocky Mountains, Judith River Basin, Middle Missouri River and the East Slope of the Rocky Mountains. Two biologists (grade 14 and 15) OR are supervised. In addition to supervisory duties, this individual (continued) ш DUTIES AND RESPONSIBILITIES OF POSITION: 7 Describe the duties, tasks and responsibilities of the position. Begin with a general statement of what the position does and then organize the description into duties and tasks beginning with the most important duties. A duty is a large segment or category of work EMP performed and can be used to group related tasks. Task statements are effectively written by using the following format: an action verb, an object, an output and how accomplished. Use language that will enable a person not familiar with the work of the position to understand what is taking place in the work activities described. Avoid words that are not graphic, such as "assists", "develops", ΒY "handles", "processes" and "works with". Complete this section by estimating the percent of time spent on each duty. ED This position consists of supervising two full-time biologists and carrying out full-time investigations in the field. An COMPLET annual report is prepared each year on these activities. Supervisory duties primarily consist of coordinating work plans and budget, monitoring each biologist to determine that job 10 BE assignments have been carried out, reviewing annual reports for each project and providing technical expertise to each biologist 10 when needed. This position's full-time field investigations consist of yearœ long inventories of wildlife and its habitat within the project 70 ₹ area. Inventories are conducted on foot, from vehicles and boats, and from the air where observations are made by using airplanes and helicopters. With this data, determination of critical use areas, migration routes and land use conflicts can be identified. Inventories of hunting pressure and harvest are also obtained by operating checking stations and making field contacts with hunters.

ADDENDUM

Kerry Constan

5. carries on a full-time federal aid project of his own which investigates the wildlife resource in the Little Rocky Mountains, Judith River Basin and along the middle Missouri River. The primary objective of these projects is to obtain baseline data necessary to maintain and protect the wildlife and fisheries resources present from possible detrimental effects of mining, gas and oil exploration and development, and energy developments that are presently active within the project area.

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٦] 9	9: [PERSONAL CONTACTS						
Describe the types, reasons for and frequency of personal contacts necessary to perform the work of this position by u as a guide:							y using the following		
			<u>wно</u>		<u>wh</u>	-	FREQUENCY		
continued				ntele eral public ate business	to provide information to make arrangements to negotiate to persuade	to gather information to elicit cooperation to advise etc.	daily weekly monthly yearly		
			Indicate whether contacts are within work unit, within agency or external This biologist makes professional contacts with the general public, private business, clerical, management and professional personnel with the department and associated federal and state agencies. These contacts are to exchange information and to obtain cooperation and understanding of our work. Public contacts are made through clubs, service organizations, checking stations and personal contacts in the field.						
-	10	0	DECISIONS AND COMMITMENTS: SCOPE AND EFFECT						
PART 1:		Describe areas, kinds and impact of decisions and commitments; the effects, influence and significance of the work of the positive consequence of error and subsequent accountability, and limitations on the extent and finality of actions and decisions and commitments; the effects, influence and significance of the work of the positive consequence of error and subsequent accountability, and limitations on the extent and finality of actions and decisions. This collection and interpretation of data forms the basis for future management of the resource in the study area. Failure to achieve these goals can cause the resource manager to improperly manage the resource.							
		_							
	1	- 1	To the best of my knowledge, t duties & responsibilities describ nerein are accurate & comple	ed Employee	1 Constan	Date:			
TI.	12	2	IMMEDIATE SUPERVISOR:	Name: Robert	R. Martinka T	ītle: <u>Bureau Chi</u>	ef		
MGN			ADDITIONAL COMMENTS OR INCORRECT ITEMS:						
SUPERVISOR/MGMT.	13	3	Supervision exercised is generally of an administrative nature and is not provided on a day to day basis.						
EB	14	1	SUPERVISION RECEIVED						
13		Describe how this position is supervised by using the following as a guide:							
PART II: TO BE COMP. BY S			1. How is work assigned, i.e., in what format, by whom, etc.? 2. How are work methods, procedures and priorities determined? 3. What guidelines, manuals, procedures & references are available & how are they used? 4. What assistance is available from others, i.e., supervisor, coworkers, outside specialists, etc.? 5. How is work reviewed, i.e., by whom, how often, by task, by objective, what methods, etc.?						
	by informal communications by the Bureau Chief. Methodology procedures and priorities are generally determined by position and are reviewed by the Bureau Chief. Assignmentally available and provided by coworkers and surface work is reviewed by Bureau Chief by information communications.							described e is sors.	

<u>;</u>								
	15	KNOWLEDGES, SKILLS AND ABILITIES						
		Describe the knowledges, skills and abilities (KSA's) that are specifically job related, essential to perform the work of this position and are essential for appointment to this position. Do not include those things typically learned on the job.						
		This position requires a thorough knowledge of the principles of wildlife biology and management. It also requires some supervisory ability.						
		Which of the above can be used to distinguish superior performance? Both of the above can be used to distinguish superior performance.						
pen	16	EDUCATION AND EXPERIENCE						
continued	10							
II: cor	Total and the same of any and the same in the position							
PART		This position requires a Master's Degree in Wildlife or Fisheries Management or closely related field and a minimum of three years of experience.						
		Andrew Company of the						
	17	PHYSICAL DEMANDS AND WORKING CONDITIONS						
		Describe any physical demands, working conditions or job hazards that affect how the incumbent performs the job or that impose additional requirements in selecting a person for the position or that affect the complexity and nature of work.						
		This position generally requires that an individual be in good physical condition						
Ų.								
	18	To the best of my knowledge, the statements in Parts I and II are accurate and complete. Supervisor's Filed R. Michael Date: 12,1981						
		ADMINISTRATIVE REVIEW AND APPROVAL: Agency option except number 3						
•		Comment: Additional comments attached						
/AL		1. Signature: Title: Date:						
RO/		Comment: Additional comments attached						
APPROVAL								
T 111:		2. Signature: Title: Date:						
ART		Comment: Additional comments attached						
Р								

3. Agency Director or Designee:

Proposed:

Classification

1

POSITION DESCRIPTION

Personnei Use Only

Class Code

(PIQ and PD combined 7/79)

Grade

16

Division os aculualens

Position No.

15806

The Position Description should provide a detailed statement of the duties and responsibilities assigned to an employee. As the building block of an effective personnel administration program, the Position Description must be completed to assist in classification, pay, recruitment, selection, performance evaluation, training, staffing analysis and other management functions. Thus, in order for this form to be effective, adequate time and effort must be expended in following its instructions, in understanding its intent and in completing it.

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PLEASE TYPE OR PRINT CLEARLY

Department Assess as University Unit

Wildlife Biologist, Supervisor

E		Agency	Figh William and Deute	31. July 2011.	11.13 13 A G					
	2		Fish, Wildlife and Parks Bureau or equivalent	Section or equivalent	Unit or equivalent	_				
Σ			pareau or equivalent	and the control of th	Similar additions					
MANAGEMENT	3	Address	. City Building & Street	Room Number	Business Telephone	-				
Ā	Ľ		Bozeman Research Park P.1	dg-MSU	00/_42/-	_				
7	4	Prepared by:		e: Ice Mussehl		-				
OR SUPER	5	Describe the activity, function, product or service of the office or work unit in which the position is situated: The goal of the Wildlife program is to protect, perpetuate, enhance and regulate the wise use of the wildlife resources for public benefit now and in the future. The Wildlife Division has 2 primary functions: (1) determining annual harvestable supplies of game and allocating the degree of public use through hunting and trapping seasons, and (2) ascertaining the status and trend of wildlife habitats. The Wildlife Division work with other Department Divisions in wildlife habitat protection and wildlife law								
VEE.	6	DUTIES AND	RESPONSIBILITIES OF POSITION:	•						
A IT I: TO BE COMPLETED BY EMPLOYE	Describe the duties, tasks and responsibilities of the position. Begin with a general statement of what the position does and to organize the description into duties and tasks beginning with the most important duties. A duty is a large segment or category of we performed and can be used to group related tasks. Task statements are effectively written by using the following format: an act verb, an object, an output and how accomplished. Use language that will enable a person not familiar with the work of the position understand what is taking place in the work activities described. Avoid words that are not graphic, such as "assists", "develop "handles", "processes" and "works with". Complete this section by estimating the percent of time spent on each duty. The function of this postition is to update the strategic planning process for Department's overall Wildlife Resource Program. The position also provides management support to both the Administrator of the Wildlife Division and the Director's office, including budgeting, legislative preparation, position policies, and review of resource planning documents of other agencies. The incumbent is assigned to the Wildlife Division staff with occasional assignment to the Director's office. Planning responsibilities and scope of the Wildlife Resource Program extend across Division lines to include those Department act ties necessary to attain program goals and objectives. The purpose of the wilfie planning project is to increase the Department's capability to effective protect the state's wildlife and manage public use, while optimizing the use of available personnel and funding. The two major duties are: wildlife resource management planning and management support services. Tasks associated with these major duties are listed below: Planning (75%) Update of statewide and regional wildlife species goals and objectives.									

	9	PERSONAL CONTACTS				
	m the work of this position by a	using the following				
		as a guide: WHO		MH.	<u>Y</u>	FREQUENCY
		-	ele I public e business	to provide information to make arrangements to negotiate to persuade	to gather information to elicit cooperation to advise etc.	daily weekly monthly yearly
continued		Professional: seeki Management: providi Other Agencies: pro	on of wright or proving advice viding or	tten materials viding input, advice ar , judgements, projectio	ons	daily daily weekly monthly weekly
	10	DECISIONS AND COMMITME	ITS: SCOPE A	ND EFFECT		
Describe areas, kinds and impact of decisions and commitments; the effects, influence and significance of the consequence of error and subsequent accountability, and limitations on the extent and finality Major policy, management action, and budget decisions are made by administrators. The Planner provides input and suggestions to the makers. As an employee, the Planner can speak freely for the age expected to exercise professional judgement; he would not make compositely or major management decisions. He would be responsible for fessional judgements in obtaining and analyzing data for preparity to top management decision-makers.					extent and finality of actions are made by top sestions to these during the agency and not make commitmeters or make the sestions in the sestions and sestions are setting to the sestions and sestions are setting to the sestion	ns and decisions. management ecision- nd is ents on ing pro-
1	11	To the best of my knowledge, the duties & responsibilities describe herein are accurate & complete	Employee	Thomas W. Musse	ell Date: Feb.	10, 1981
] 1	2	IMMEDIATE SUPERVISOR:	Name: Eug	ene O. Allen	litle: Wildl. Div. Adı	ministrator
ٷؖ		ADDITIONAL COMMENTS OR	INCORRECT	ITEMS:		
SUPERVISOR/MGMT	13	None			-	-
<u>}</u> [1	4	SUPERVISION RECEIVED				
3		Describe how this position is supe	rvised by using t	the following as a guide:		
PART II: 10 BE COMP. BY		3. What guidelines, manuals, price, supervisor, coworkers, outsimethods, etc.? 1. This position is Division - work is a made by the Director pleting assigned tas Parks Game Laws and tive Agreements with	under the specialists, ender the ssigned in Supervise is min Administration that the tance is	by whom, etc.? 2. How are work rences are available & how are they use.? 5. How is work reviewed, i.e., the general supervision in verbal and memo form ision regarding work simal but on-going. 3. ative Codes, Federal A gencies and Commission available from other definitions.	sed? 4. What assistance is avail by whom, how often, by task, b of the Admin. of th . Assignments are chedules and method Montana Fish, Will id Manual, Commissi policy relative to	dable from others, by objective, what he Wildlife occasionally ds of com-ddlife and don Coopera-

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3. Agency Director or Designee:



CLASS **SPECIFICATIONS**

CLASS CODE	041029
GRADE	14
AST UPDATED	3-14-75

Biological Sciences

MONTANA CLASSIFICATION TITLE

Fisheries and Wildlife Biologist III

DESCRIPTION OF WORK

GENERAL DUTIES: Performs professional activities in carrying out assigned segments of broad and complex biological management or research studies. SUPERVISION RECEIVED: Works under general supervision of an administrative superior. SUPERVISION EXERCISED: Exercises supervision of personnel as assigned.

EXAMPLE OF DUTIES

Conducts assigned management and development projects, surveys, and investigations; collects, compiles, and analyzes data obtained from surveys and investigations; prepares work plans and reports as required; keeps current in management and related fields through literature, meetings, workshops, and correspondence; explains management principles and objectives at meetings or through other available media in accordance with department policy; inspects planned or proposed programs for projects involving habitat in an assigned area and reports on the probable effects of such projects; performs related work as required.

MINIMUM QUALIFICATIONS

KNOWLEDGES: Considerable knowledge of the techniques of investigation of plant and animal communities, methods of statistical analyses and of report writing. SPECIAL SKILLS: Skill in the operation of fisheries or wildlife survey gear and instruments.

ABILITIES: Ability to communicate effectively verbally and in writing. to prepare detailed plans and specifications, to prepare reports; to establish and maintain effective working relationships with employees and the public; to work outdoors under adverse working conditions.

EDUCATION: Master's degree in Fish and Wildlife Management or related

biological science.

EXPERIENCE: Two years of experience as a Fisheries and Wildlife Biologist II.

0R



CLASS **SPECIFICATIONS**

•	041030
	15
	3-14-75

OCCUPATIONAL GROUP

Biological Sciences

MONTANA CLASSIFICATION TITLE

Fisheries and Wildlife Biologist IV

DESCRIPTION OF WORK

GENERAL DUTIES: Performs supervisory and professional activities in carrying out major regional or statewide segments of broad and complex biological management or research studies.

SUPERVISION RECEIVED: Works under general supervision of an administrative

SUPERVISION EXERCISED: Exercises supervision over professional personnel as

assigned.

EXAMPLE OF DUTIES

Conducts research, management or development projects in assigned area of responsibility or assists in the administration of a fisheries or wildlife management region; supervises the compilation and analysis of data obtained from surveys and investigations; supervises the preparation of work plans and reports as required; keeps current in management and related fields through literature, meetings, workshops and correspondence; prepares budgets for assigned area of responsibility and directs activities within budgetary limitations; explains management principles and objectives at meetings and through other communication media in accordance with department policy; inspects planned or proposed programs involving habitat in assigned area of responsibility and reports on probable effects of such projects; performs related work as required.

MINIMUM QUALIFICATIONS

KNOWLEDGES: Thorough knowledge of the techniques of investigation of plant and animal communities, methods of statistical analyses, report writing and administrative and supervisory principles.

SPECIAL SKILLS: Skill in the operation of fisheries or wildlife survey gear

and instruments.

ABILITIES: Ability to communicate effectively verbally and in writing; to prepare detailed plans and specifications and to budget for effectively carrying out projects: to establish and maintain effective working relationships with employees and the public; to work out of doors under adverse working conditions. EDUCATION: Master's degree in Fish and Wildlife Management or related

biological science.

EXPERIENCE: Three years experience in fisheries and wildlife management or research biology, one year of which must have been as a Fisheries and Wildlife Biologist III

OR

S	AII	As Noted Below	All Except Those Noted Below
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POSITION DESCRIPTION

Personnel Use Only

(PIQ and PD combined 7/79)

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	PLEASE TYPE OR PRINT CLEARLY						
			Title Class C	Code Grade	Position No.		
	1	Classification	Fisheries and Wildlife Biologist II 041	028 13	15702		
			Proposed: Fish & Wildlife Biologist III	14			
_			Department, Agency or University Unit	Division or equivalent	t .		
2	2	Agency	Montana Department of Fish, Wildlife & Parks	Wildlife			
/ INIAINAGEMEN /		Aguney	Bureau or equivalent Section or equivalent	Unit or equi	valent		
<u>ر</u>	3	Address	City Building & Street Room Number	Business T	elephone		
₹	3	Address	Helena 1420 E. 6th	449-26	12		
	4	Prepared by:	☐ Employee Name of Employee: / S. Supervisor/Management	Martin			
OR SUPERVISOR	5	Employee m management activities interpret a promote in	tivity, function, product or service of the office or work unit in which the position ust: Assist with Regional program design to devoleptives based on identifiable need. Be resultance associated with the Region's furbearer management furbearer data to establish regional activitional efficiency. Prepare written technical to the surface of the surfac	velop specific sponsible for ent plan. Ana ty priorities hnical reports	coordinating lyze and that will describing		
נו נו	6		RESPONSIBILITIES OF POSITION:	101 311 400 1511	Ca area wreni		
DI EINILD		organize the di performed and verb, an object to understand "handles", "pr	duties, tasks and responsibilities of the position. Begin with a general statement escription into duties and tasks beginning with the most important duties. A duting the can be used to group related tasks. Task statements are effectively written by the analysis of the complete tasks. Task statements are effectively written by the can output and how accomplished. Use language that will enable a person not what is taking place in the work activities described. Avoid words that are not occases" and "works with". Complete this section by estimating the percent of times.	ty is a large segment or c y using the following fo t familiar with the work t graphic, such as "assis ne spent on each duty.	eategory of work ormat: an action of the position its", "develops",		
O DE COMPLEIED		region's for production the profess sionals; propublics enformations aspections as productions as productions as productions.	f duties include: compiling, analyzing and repourbearer management data; determining factors in mortality, survival and harvestable supplies; sion via literature, schools and personal contactoriding recommendations to permit recreational joying furbearers; conducting intensive ground a pects of furbearer biology; and working with comparious biological parameters.	nfluencing furly keeping current with other proportunities and gerial surve	bearer nt with profes- for all		
ranı ı.		status; cor recreation; and technic able to wor conditions.	es include: Conducting aerial and ground survey arers; conducting law enforcement duties associanducting landowner interviews to determine access responding to animal damage complaints; care a cal equipment; and teaching hunter safety course k with a variety of equipment and be able to wo Employee must be able and willing to spend course or permanent station	ated with ex-oresistic programmer to program	fficio ublic e of field must be		

supervise seasonal and permanent employees when assigned.

5. Describe the activity, function, product or service of the office or work unit in which the position is situated - Cont.

the region conduct surveys and inventories for all other game animal species to provide information to accomplish similar results as that described for furbearers. Recognize the need for and suggest changes in procedures when necessary. Exercise considerable initiative and be able and willing to communicate with colleages and the public. Incumbent has completed two years in the capacity of Grade 13, Fish and Wildlife Biologist II. During this period incumbent's work and performance was of high quality. He is expected to take on and, in fact, has received the additional responsibilities listed herein. A major feature of his additional responsibilities is the great degree of independent action and initiative that he can now exercise.

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Γ				sponsibilities (continued)				%
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		7	SUPERVISIO	N EXERCISED: List the position number and til	le of po	sitions directly	y supervised.	
•	4	1						
			Position No.	Title		Position No.	Title	
	۵		Position No.	Title		Position No.	Title	
_	d		Position No.	Title		Position No.	Title	
-	d		Position No.	Title		Position No.	Title	
	d					·		
	b.		Describe the		s: setti	·	Title Title	gn,
	P.		Describe the review, evalua	nature of supervision exercised in the following area te, train, hire, discipline.		ng policies, ab		gn,
	P.		Describe the review, evalua	neture of supervision exercised in the following area		ng policies, ab		ign,
	P.		Describe the review, evalua	nature of supervision exercised in the following area te, train, hire, discipline.		ng policies, ab		ign,
	P.		Describe the review, evalua	nature of supervision exercised in the following area te, train, hire, discipline.		ng policies, ab		gn.
	.d		Describe the review, evalua	nature of supervision exercised in the following area te, train, hire, discipline.		ng policies, ab		gn.
	. d		Describe the review, evalua	nature of supervision exercised in the following area te, train, hire, discipline.		ng policies, ab		ign.
	d		Describe the review, evalua	nature of supervision exercised in the following area te, train, hire, discipline.		ng policies, ab		ign,
	d	8	Describe the or review, evalual Season	nature of supervision exercised in the following area te, train, hire, discipline.	en a	ng policies, ob		gn.
	. d	8	Describe the or review, evalual Season	neture of supervision exercised in the following area te, train, hire, discipline. nal and permanent employees wh	en a	ng policies, ob		gn.
	id	8	Describe the creview, evaluate Season	nature of supervision exercised in the following area its, train, hire, discipline. Ital and permanent employees where the percent of the pe	en a	ng policies, ob	jectives, work plans, work methods and priorities; assi	
	id	8	Describe the a review, evalual Season EQUIPMENT Various vehicles	neture of supervision exercised in the following area te, train, hire, discipline. all and permanent employees wh OR MACHINERY USED: Indicate the percent Type over-the-land and water-type i. i.e., four-wheel drives, sr	en a	ng policies, ob	jectives, work plans, work methods and priorities; assi	
	d	8	Describe the review, evaluate Season Season Various vehicles machines	neture of supervision exercised in the following erecte, train, hire, discipline. In all and permanent employees where the percent type Over-the-land and water-type i.e., four-wheel drives, so is, air and jet boats; data pro-	of tota	ng policies, ob	jectives, work plans, work methods and priorities; assi	
	id	8	Describe the review, evaluate Season Season Various vehicles machines	neture of supervision exercised in the following area te, train, hire, discipline. all and permanent employees wh OR MACHINERY USED: Indicate the percent Type over-the-land and water-type i. i.e., four-wheel drives, sr	of tota	ng policies, ob	jectives, work plans, work methods and priorities; assi	

	9	PERSONAL CONTACTS				
		D/scribe the types, reasons for as a guide:	and frequency of po	ersonal contacts necessary to pe	erform the work of this position by	using the following
		<u>wно</u>		,	WHY	FREQUENCY
		I *	tele ral public te business	to provide information to make arrangements to negotiate to persuade	to gather information to elicit cooperation to advise etc.	daily weekly monthly yearly
		Indicate whether contacts are wi	thin work unit, with			,,
		Would make daily con personnel to excharacooperation.	ontact with nge informat	other professional ion, make arrangem	, management and/or ents, negotiate and/	agency or elicit
continued						
=	10	DECISIONS AND COMMITME	NTS: SCOPE AND	DEFFECT		
FAHI I:		•		•	luence and significance of the wo the extent and finality of acti	· ·
		Employee can and is and procedure. Emplacement	loyee commit	to speak for the s the department t	department on establ o specific courses o	ished policy f action by
		To the best of my knowledge, t	he			
	11	duties & responsibilities describ- herein are accurate & complet	I Signature:	Bernie Hell	frank Date: 2/	9/82
	12	IMMEDIATE SUPERVISOR:	Name: <u>Neil</u>	L S. Martin	Title: Regional Wildl:	ife Manager
SOFERVISOR/MGM	13	ADDITIONAL COMMENTS OF	R INCORRECT IT	EMS:		
2	14	SUPERVISION RECEIVED				
COMIT, BT SUFE		3. What guidelines, manuals, p	in what format, by rocedures & referen	whom, etc.? 2. How are we ces are available & how are the	ork methods, procedures and pricey used? 4. What assistance is avie., by whom, how often, by task,	ilable from others,
ם מ		in another city som	e 80 miles a	away. The employee	Vildlife Manager who is expected to compression of the compression of	plete
PARI II						

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	15\	KNOWLEDGES, SKILLS AND ABILITIES
	·	Describe the knowledges, skills and abilities (KSA's) that are specifically job related, essential to perform the work of this position and are essential for appointment to this position. Do not include those things typically learned on the job.
		Employee must: be able to plan and complete work necessary to obtain stated objectives; and analyze completed work and provide recommendations for program direction; communicate results of work both written and orally; and remain current in the profession. Knowledge of programmable computers is desirable; ability to devise new methods for obtaining information is desirable; being an effective communicator is a must.
		Which of the above can be used to distinguish superior performance?
continued	16	EDUCATION AND EXPERIENCE
ntin		Describe specific kind, amount and level of education (curriculum, courses, specialization) and experience that indicate the source of
1		KSA's and that can be used in selecting a person for this position.
PART II:		Education required for this position is a Master's Degree in Wildlife Management Ecology or other related field. Two years' experience as a Fish and Wildlife Biologist II in field work, planning field work and report writing are necessary.
	17	PHYSICAL DEMANDS AND WORKING CONDITIONS
		Describe any physical demands, working conditions or job hazards that affect how the incumbent performs the job or that impose additional requirements in selecting a person for the position or that affect the complexity and nature of work.
		Considerable amounts of time are spent out-of-doors, much of which is done under adverse weather conditions and in sparsely populated areas. Since the work is varied, physical demands are also extremely varied. Some of the work such as low level flying and checking hunters is potentially dangerous.
	18	To the best of my knowledge, the statements in Parts I and II are accurate and complete. Supervisor's Signature: Signature: Date: 2/5/82
		ADMINISTRATIVE REVIEW AND APPROVAL: Agency option except number 3
		Comment: Additional comments attached
AL		1. Signature: Date:
APPROVAL		Comment: Additional comments attached
PPF		
111:		2. Signature: Date:
PART		Comment: Additional comments attached
P.		the second of th
		en de de la composition de la composition La composition de la c
		3. Agency Director or Designee: Date:
		Uate:

POSITION DESCRIPTION

Personnel Use Only

(PIQ and PD combin d 7/79)

The Position Description should provide a detailed statement of the duties and responsibilities assigned to an employee. As the building block of an effective personnel administration program, the Position Description must be completed to assist in classification, pay, recruitment, selection, performance evaluation, training, staffing analysis and other management functions. Thus, in order for this form to be effective, adequate time and effort must be expended in following its instructions, in understanding its intent and in completing it.

Each agency may decide who should complete the form. Considerations that affect this choice are the circumstances for completing it, the desire to stimulate employee participation and interest, and the authority and responsibility of management to determine the duties and responsibilities of positions. The form does require that management complete the sections concerning physical demands, supervision received and requirements. Signature blocks have been provided to allow larger agencies several levels of review and approval. Each agency should establish its own policy and procedure regarding the review and approval of the form.

Before proceeding, PLEASE READ THE ENTIRE FORM to understand how sections relate to each other and to avoid repeating information. If there are any questions about completing this form, contact your agency personnel officer or the State Personnel Division at 449-3871.

PLEASE TYPE OR PRINT CLEARLY Position No. Class Code Grade Current: Fish & Wildlife Biologist 041028 13 32801 Classification Fish & Wildlife Biologist 041029 Same Department, Agency or University Unit Division or equivalent Fish, Wildlife & Parks Ecological Services MANAGEMENT Agency Bureau or equivalent Unit or equivalent Section or equivalent Baseline Studies City Building & Street Business Telephone Room Number 3 Address Helena FWP 449-2602 ☐ Employée Prepared by: Name of Employee: William Gardner Supervisor/Management Describe the activity, function, product or service of the office or work unit in which the position is situated: This project involves making scientific collections of biological, physical and chemical data relating to instream flows necessary SUPE for aquatic communities. This is a requirement of the Bureau of Land Management's administration of the federally designated Wild & OR Scenic portion of the Missouri River and the project is BLM-funded.

DUTIES AND RESPONSIBILITIES OF POSITION:

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ART

Describe the duties, tasks and responsibilities of the position. Begin with a general statement of what the position does and then organize the description into duties and tasks beginning with the most important duties. A duty is a large segment or category of work performed and can be used to group related tasks. Task statements are effectively written by using the following format: an action verb, an object, an output and how accomplished. Use language that will enable a person not familiar with the work of the position to understand what is taking place in the work activities described. Avoid words that are not graphic, such as "assists", "develops", "handles", "processes" and "works with". Complete this section by estimating the percent of time spent on each duty.

This reclassification request is based on the fact that a biologist with 2 years field experience is capable of working with very little supervision - consequently, freeing superiors for other work. As an experienced biologist, he will be asked to make public contacts, including talks to sportsmen's clubs, agricultural groups, etc. to explain the department's activities.

Daily activities include making fish population estimates using electrofishing gear, gill nets, seines and other appropriate equipment; collecting, compiling and analyzing data obtained from these surveys; using statistical methods of designing sampling programs and analyzing data collected and writing technical reports relating these data to the instream flow needs of fish populations.

- 1	Duties and R	esponsibilities (continued)					%
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		(Attach add	itional	sheets if neces	sary)		
7	SUPERVISIO	(Attach add	************				
7	SUPERVISION No.		************			•	
7		ON EXERCISED: List the position number and tit	************	ositions directl	y supervised.	e	
7	Position No.	ON EXERCISED: List the position number and tit	************	ositions directl	y supervised.	е	
7	Position No.	ON EXERCISED: List the position number and tit	************	ositions directl	y supervised.	e	
7	Position No.	ON EXERCISED: List the position number and tit	************	ositions directl	y supervised.	6	
7	Position No.	ON EXERCISED: List the position number and tit	************	ositions directl	y supervised.	•	
7	Position No.	ON EXERCISED: List the position number and tit Title Fisheries Fieldworker	e of po	Pasition No.	y supervised. Title		ign,
7	Position No. 32802 Describe the	ON EXERCISED: List the position number and tit	e of po	Pasition No.	y supervised. Title		ign,
7	Position No. 32802 Describe the review, evaluation	Title Fisheries Fieldworker nature of supervision exercised in the following area ate, train, hire, discipline.	e of po	Pasition No.	y supervised. Title Title jectives, work plans, work met!	hods and priorities; assi	
7	Describe the review, evaluation this this	Title Fisheries Fieldworker neture of supervision exercised in the following area are, train, hire, discipline. biologist selects his own person in the use and mai	s: setti	Positions directl Position No. ing policies, ob asonal nance o	y supervised. Title jectives, work plans, work met assistant. He f equipment, me	hods and priorities; assi will instru	ict
7	Describe the review, evaluate this be us	Title Fisheries Fieldworker nature of supervision exercised in the following area ste, train, hire, discipline. biologist selects his own person in the use and mailed and expected results.	se setti	Positions directl Position No. ing policies, ob asonal nance o will m	jectives, work plans, work met assistant. He f equipment, me ake daily work	will instruthods to assignments	ıct
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7	Describe the review, evaluate this be us At the this	Title Fisheries Fieldworker neture of supervision exercised in the following area are, train, hire, discipline. biologist selects his own person in the use and mai ed and expected results. e end of the field season person which will determi	se setti	Positions directl Position No. ing policies, ob asonal nance o will m will w	jectives, work plans, work met! assistant. He f equipment, me ake daily work rite a merit ra	will instruthods to assignments	ıct
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7	Describe the review, evaluate this be us At the this	Title Fisheries Fieldworker neture of supervision exercised in the following area are, train, hire, discipline. biologist selects his own person in the use and mai ed and expected results. e end of the field season person which will determi	se setti	Positions directl Position No. ing policies, ob asonal nance o will m will w	jectives, work plans, work met! assistant. He f equipment, me ake daily work rite a merit ra	will instruthods to assignments	ıct
7	Describe the review, evaluate this be us At the this	Title Fisheries Fieldworker neture of supervision exercised in the following area are, train, hire, discipline. biologist selects his own person in the use and mai ed and expected results. e end of the field season person which will determi	se setti	Positions directl Position No. ing policies, ob asonal nance o will m will w	jectives, work plans, work met! assistant. He f equipment, me ake daily work rite a merit ra	will instruthods to assignments	ict
	Describe the review, evaluate this be us At the this consi	Title Fisheries Fieldworker neture of supervision exercised in the following area are, train, hire, discipline. biologist selects his own person in the use and mai ed and expected results. e end of the field season person which will determi	se setti	Positions directles of the policies, obtained on a sonal mance of will mail whether	jectives, work plans, work met! assistant. He f equipment, me ake daily work rite a merit ra	will instruthods to assignments	ict
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	Describe the review, evaluate this be us At the this consi	Title Fisheries Fieldworker neture of supervision exercised in the following area are, train, hire, discipline. biologist selects his own person in the use and mailed and expected results. e end of the field season person which will determine dered for future employme. OR MACHINERY USED: Indicate the percent	se nte: He he ne nt.	Positions directl Position No. ing policies, obtaining policies,	jectives, work plans, work met! assistant. He f equipment, me ake daily work rite a merit ra or not the per	will instruthods to assignments ting for son is	ict
	Describe the review, evaluation this this be us At the this consi	Title Fisheries Fieldworker nature of supervision exercised in the following area ate, train, hire, discipline. biologist selects his own person in the use and mailed and expected results. e end of the field season person which will determine dered for future employme OR MACHINERY USED: Indicate the percent Type rofishing boat w. 250 hp	se setti se he he ne 'nt.	Positions directles of the policies, obtained on a sonal mance of will make the control of the policies of the	y supervised. Title jectives, work plans, work method assistant. He f equipment, me ake daily work rite a merit ra or not the per Type ectrofishing ge	will instruthods to assignments ting for son is	ict
	Describe the review, evaluate this be us At the this consi	Title Fisheries Fieldworker neture of supervision exercised in the following area are, train, hire, discipline. biologist selects his own person in the use and mailed and expected results. e end of the field season person which will determined are for future employme. OR MACHINERY USED: Indicate the percent Type rofishing boat W. 250 hp; pickup truck; motorcycl	se setti se he he ne 'nt.	Positions directles of the policies, obtained as on all mance of will make the policies of the	y supervised. Title jectives, work plans, work method assistant. He f equipment, meto ake daily work rite a merit ra or not the per Type ectrofishing ge ent includes le	will instruthods to assignments ting for son is	ict
7	Describe the review, evaluation No. This this be us At the this consider the consideration that	Title Fisheries Fieldworker nature of supervision exercised in the following area ate, train, hire, discipline. biologist selects his own person in the use and mailed and expected results. e end of the field season person which will determine dered for future employme OR MACHINERY USED: Indicate the percent Type rofishing boat w. 250 hp	se setti se he he ne 'nt.	Positions directles of the policies, obtained as on all mance of will make the policies of the	y supervised. Title jectives, work plans, work method assistant. He f equipment, me ake daily work rite a merit ra or not the per Type ectrofishing ge	will instruthods to assignments ting for son is	ict

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9	PERSONAL CONTACTS				
	Describe the types, reasons for a as a guide:	and frequency of	f personal contacts necessary to per	form the work of this position by	using the following
	WHO		W	инч	FREQUENCY
	• • • • • • • • • • • • • • • • • • • •	ele al public e business	to provide information to make arrangements to negotiate to persuade	to gather information to elicit cooperation to advise etc.	daily weekly monthly yearly
	he will contact (especially the regarding fish necessary to pr speak to sports	employe Bureau populati eserve t	is position is bas ees of other state of Land Managemer ions and habitat r those populations roups, agricultura , children's organ	e agencies, feder at) and private i requirements and and habitat. He al groups, civic	al agencies ndustry measures will also
10	DECISIONS AND COMMITME	NTS: SCOPE A	ND EFFECT	······································	
, ;;			nd commitments; the effects, influcountability, and limitations on t		
	he collects are be unsatisfacto	not sat	ake policy-setting tisfactory, the te that were to happ be forthcoming fo	echnical report ween, it is unlike	vill also ely that
		serious	potentially danges injury to the bi		
11	To the best of my knowledge, th duties & responsibilities describe herein are accurate & complete	d Employee	William M. Ga	when Date: 3-	17-81
12	IMMEDIATE SUPERVISOR:	Name:		Title:	
13	ADDITIONAL COMMENTS OR	INCORRECT	ITEMS:		
14	SUPERVISION RECEIVED				
	3. What guidelines, manuals, pro- i.e., supervisor, coworkers, outside methods, etc.? Basic objective Sampling proced Work methods an Standard fisher reports, are av given to tempor personnel. Per	n what format, ocedures & refer de specialists, et lures are out daily ries literailable ary emplationicall	by whom, etc.? 2. How are wo rences are available & how are they ic.? 5. How is work reviewed, i.e. attlined in the concession of the suggested by his priorities are deterature, as well a for reference. The loyees, and receively the regional sur	used? 4. What assistance is evaluable, by whom, how often, by task, atract for this per section in the section of the section	by objective, what eroject. visor. biologist. chnical nce is s Division sign
	logical choice.		nis biologist's ex	perience makes n	ım the

PART 1: continued

**RT 11-TO PE COMP BY SUPERVISOR/MGMT.

	15	KNOWLEDGES, SKILLS AND ABILITIES
		Describe the knowledges, skills and abilities (KSA's) that are specifically job related, essential to perform the work of this position and are essential for appointment to this position. Do not include those things typically learned on the job.
		The abilities to plan, to write clearly and concisely, to get along well with other people, to speak diplomatically to landowners and to pay close attention to details are all important.
		Which of the above can be used to distinguish superior performance?
-		
inue	16	EDUCATION AND EXPERIENCE
II: continued		Describe specific kind, amount and level of education (curriculum, courses, specialization) and experience that indicate the source of KSA's and that can be used in selecting a person for this position.
PART I		Master's degree in fish and wildlife management or a closely related field, plus several years of experience on a fisheries project are a prerequisite.
}	17	PHYSICAL DEMANDS AND WORKING CONDITIONS
ľ		Describe any physical demands, working conditions or job hazards that affect how the incumbent performs the job or that impose additional requirements in selecting a person for the position or that affect the complexity and nature of work.
		It is necessary for the person in this position to be in good physical condition, since electrofishing gear is heavy and this person works outdoors in all kinds of weather.
		·
.6.	18	To the best of my knowledge, the statements in Parts 1 and Signature: Rochwy K. Berry Date: 3-17-81
		ADMINISTRATIVE REVIEW AND APPROVAL: Agency option except number 3
		Comment: Additional comments attached
4 L		1. Signature: Celet Martite Title: Beckie States Boy Chij Date: 3-17-81
		Comment: Additional comments attached
AFFROVAL		
		2. Signature: Date:
FARI		Comment: (a straight of the st

3. Agency Director or Designee:



STATE OF MONTANA DEPARTMENT OF ADMINISTRATION

PERSONNEL DIVISION

CLASS SPECIFICATIONS

CLASS CODE	041027
GRADE	11
LAST UPDATED	12-3-75

OCCUPATIONAL GROUP

Biological Sciences

MONTANA CLASSIFICATION TITLE

Fisheries and Wildlife Biologist I

DESCRIPTION OF WORK

GENERAL DUTIES: Performs entry level professional activities in making routine field collections of biological physical and chemical data; conducts assigned surveys and investigations.

SUPERVISION RECEIVED: Works under immediate supervision of an administrative superior SUPERVISION EXERCISED: Works as lead worker over student assistants as assigned.

EXAMPLE OF DUTIES

Assists in collecting, compiling, and analyzing data obtained from surveys and investigations; reviews scientific literature; writes technical reports or articles; performs related work as assigned.

MINIMUM QUALIFICATIONS

KNOWLEDGES: Some knowledge of the principles and techniques of investigating plant and animal communities and the methods of statistical analysis.

SPECIAL SKILLS: None.

ABILITIES: Ability to assist in scientific research; to work outdoors in adverse working conditions; to work harmoniously with other employees and the public; to communicate effectively verbally and in writing; to perform physical assignments as required.

EDUCATION: Bachelor's degree in fish and wildlife management or a closely related

biological science. EXPERIENCE: None.

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CLASS SPECIFICATIONS

 CLASS CODE	041028
GRADE	13
LAST UPDATED	3-14-75

OCCUPATIONAL GROUP

Biological Sciences

MONTANA CLASSIFICATION TITLE

Fisheries and Wildlife Biolgist II

DESCRIPTION OF WORK

GENERAL DUTIES: Performs professional activities in making field collections of biological, physical, and chemical data and conducting assigned surveys and investigations.

SUPERVISION RECEIVED: Works under close supervision of an administrative superior.

SUPERVISION EXERCISED: Supervises student assistants as assigned.

EXAMPLE OF DUTIES

Collects, compiles, and analyzes data obtained from surveys and investigations; uses statistical methods in designing sampling techniques and analyzing data collected; reviews scientific literature, writes technical reports or articles; performs related work as required.

MINIMUM QUALIFICATIONS

KNOWLEDGES: Working knowledge of the techniques of investigations of plant and animal communities, methods of statistical analyses and tehoniques of report writing.

SPECIAL SKILLS: None.

ABILITIES: Ability to design and carry out scientific research, to work outdoors in adverse working conditions; to be physically able to perform assigned duties; to establish and maintain effective working relationships with employees, other agencies, and the public; to communicate effectively verbally and in writing. EDUCATION: Master's degree in Fish and Wildlife Management or closely related biological science.

EXPERIENCE: None.

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	TATE OF MONT MENT OF ADMI RSONNEL DIV	NISTRATIO	POSITI DESCRIP	ON TION	Use Only			+	13107
resent lassification	Class Code 01+1027	Classificat Fis	ion Title (Current or Propose heries and Wildlif	e Biologi.	I		G	iade	Position No.
	Department Fish and	Game	•	Division Fisheries					
Agency	Bureau Fisheric	s Mejmt	Section				_{Init} Region	One	
Address	Cay Kalispel	1	Bullding & Street 490 N. Meridian	· · · · · · · · · · · · · · · · · · ·		Roo	m Number		8usiness Tel. 755-5505
Use Only	Title		•		Class Co	od•	Grade	Positio	n No.
à 5	Desk	Audit	Field Audit	Effective Date	of Action	n:			
General Stat	ement of Duites	and Respo	onsibilities (Major duties and	responsibilities of	position)				
primari	ly in lake	e habita	Plogical research its; and to assume -foot research ves	the respons					

To collect limnological data by accepted techniques on prescribed schedules. Data will be summarized and used as a base for comparison of changing environments.

To conduct hydroacoustical surveys that record and enumerate data in a manner that can be used to estimate fish population densities.

Conduct seasonal and area creel census surveys by interviewing anglers and collecting data of catch, success, and other pertinent biological data.

Annually perform prelaunching maintenance on the research vessel and to continualty keep in operational form the boat and the many diversified types of collection equipment.

Assists project leader with related work as assigned.

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	-				
_	Title and Number of Positions Supervised				
	Title	No.	Title)	No.
	Laborer I, II, III	1 or 2			
				·	
	Student Assistant	1		·	
				ent; does incumbent review, approve, recommend app	
	of subordinates' work; does incumbent hire, recomm	mand discharge,	evaluate p	performance, etc.)	
	in collection of biological		signed	in maintenance and their assists	ince
	•				
0	Equipment or Machinery used				
	TYPE		%	TYPE	*
	research boat, nets, trawls	, ceines,		other scientific apparatus	
	1 2				
,	hydroacoustical collection	equipment	1		
	engineering equipment & sma				
_	engineering equipment & sma	ll tools			
11		ll tools	in pertorn	nance of work (include statutes, regulations, erc.)	
1 ;	engineering equipment & sma	ll tools	in perform	nance of work (include statutes, regulations, etc.)	
11	engineering equipment & sma	ll tools	in pertorn	nance of work (include statutes, regulations, erc.)	
1 1	engineering equipment & sma	ll tools	in pertorn	nance of work (include statutes, regulations, etc.)	
11	engineering equipment & sma	ll tools	in perforn	nance of work (include statutes, regulations, erc.)	
1 1	engineering equipment & sma	ll tools	in pertorn	nance of work (include statutes, regulations, erc.)	

Specific Statements and Examples of Duties and Responsibilities Continued

•	•		
2	Technical Assistance Available (i.e. supervisor, specialists, etc. how utilized, i.e.	e. pro	oblem solving, planning, technical advice or review)
	Assistance from Fisheries Biologists III and	Fi	cheries Management Supervisor
	The state of the s		ana anang mengapi ngerapakan pendengan menangkan pendengan pendengan pendengan pendengan pendengan pendengan p
13	13 Work Assignment Methods and Procedures (How is work assigned to position; and kinds of decisions already made.	what	form is it in (such as penciled lay out, rough draft, etc.)
	Seasonal maintenance and preformance schedul	es a	are programmed through project
	document planning.		
	Day to day operational activities are verbal		
14	14 Consequence of Error and How Errors are Discovered by Others (what are the service breakdowns, etc.)	rami	fications of error, i.e. costs in dollars, public relations,
	Errors in operation of the boat and equipmen	t a	uring sampling can be hazardous
	to the life and safety of all aboard as well	as	prolonged delays during repairs.
, [
	Areas of Decisions and Commitments (is the employee free to speak for the a specific course of action—how is this accomplished?)	gency	; can employee commit state, agency, or unit to a
	Employee is responsible for decisions about	the	boat operation and equipment.
	,	•	
16	16 Personal Contacts (Type, nature, and frequency of contacts with persons outside	te of	the agency)
	· A B C	D E	PURPOSE
	Clerical Staff	7	Assimilation of data
	Professional Staff	X	Interagency and educators
	Management Staff		
	Agency Directors, Chairpersons, etc.		
	Legislators		
	Private Sector Professional Staff	_	
	Private Sector Managers		
	General Public X	1	Contacts with the public when (ice)
ł	Others (_	
	*(A) Many times daily; (B) Once or twice a day; (C) Several times a week; (D)	Seve	ral times a month; (E) Several times a year.
' ¹∤	Comments on Personal Contacts needing further explanation:		
	16 Connel Public Cont.		- (1 A) - 1-1
	16 General Public(Cont: carrying out normal dut:	re.	or the job.
			
ı			

							
18	Working Conditions ar	nd Physical Demands. Explain	physical factors	wnich affect the position - use exam	ples where appro	priete.	
	Working cond	ditions involve out	side work	, often under extreme	conditions	i.e.,	
~		atures, adverse wea					
ı				77 - 11- 7 4-01-0	ua damanda	- e	
	Physical dem	mands are often requenumeration of acou	uired as v	well as the less tedio	us demands		
19		escribe how position is supervi					
	Position is	most often directl	y supervi	sed by the appropriate	fisheries	field	biologist.
	Supervision	is periodically ma	de to ens	ure accuracy and prope	r collection	on tec	nniques.
							
							<u> </u>
	19A. Supervisor	Incumbent		Title Fisheries and	Class Code		Position No.
	Supervisor	Delano A. Hanzel		/ildlife Biologist III	41029	14	122
20	Minimum Education			Specialization and Coursework. If form duties of the position, indicat			
	Grade School			Basic concepts of fish			
	Ability to read & write	8 9 10 11 12 1 2 3 A	M Ph A D	background in biologic	al investi	gation	1.
		ter former of the territor for the control of the c					
71	Minimum Experien	nce Required to perform Duties	of Position:	<u> </u>			
	A basic awa	reness of large bos	it operati	on and water safety.			
ı							
			·				· · · · · · · · · · · · · · · · · · ·
L							
22	Special Qualificatio	ons (licenses, certificates, etc.)	1				
\vdash							· · · · · · · · · · · · · · · · · · ·
23	Travel Required	yes <u>X</u> no	Daily	2 to 3 times a week	2 to 3 ·	mes a m	onth.
24	Knowledge, Skills a perform the work (ges, abilities, ch	aracteristics, skills, etc. which are spi	ecifically job relat	ed and e	ssential to
	Basic knowl	ledge of motors and	wooden bo	oat maintenance			
Ì	Seuba trair	ning and general kno	owledge of	statistical analysis			
	Ability to	communicate cliecti	ivery with	public and associates	>•		
25	Additional desirable	e knowledges, skills, and abilitie	es that might co	intribute to outstanding job performi	ance.	····	·
	General kno	owledge of electron	ics the	eir repair and maintens	ance.		
-	/ <u> </u>						•
126	Signature of Agence	y Director	Date	Signature of Administrator, Pars	onnel Division		Date
		4		The state of the s	Committee Civinion		50.0
	(flithin)	E. Ment					
	, cuivo	/ 0	3:3:13	* .			

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-	ø	'OEF	PARTN	TATE OF MONT	N STRATI	ON	POSIT DESCRIF		Personnel Use Only						26.04		
	1	Present Classific		Class Code 041027			tle (Current or Propo es & Wildlif		st	I			3de 11	Pas	ition No.		
	T	_		Department Fish &	Game			Division Env	iro	nme	nt	& Info	orma	ıti	on		
	2	Agency		Burea Envir	onmen	t	Section				Ur	nit				;	
	3	Address	•	^{City} Helen		Bulldir	ng & Street Fish & Gan	ne			Room	Number			Business 449-		
	4	Personnel Division Use Only	New T	itle			•		CI	ass Co	(1 0	Grade	Positio	on N	lo.	,	
	5	Perso Divi Use		Desk	Audit		Field Audit	Effective Da	te of .	Action	:						
	6	Genera	State	ment of Duites	and Respo	onsibili	ties (Major duties and	responsibilities o	f posi	tion)							
		ga du wi an	ame arin .th ad h	biologis g winter general e will a	t sta montl fishe: ssist	tion hs; ries the	three job med at Outlo he will ass duties for Fisheries aring the re	ook with paint of the first the firs	oopu Fish Mate ir	lat eri ly ves	ion es l one- tiga	inver Manage -thire ating	ntor er a d of fis	ie at t	s Glas he y	gow ear	ons

Several game species (white-tailed deer, pheasant, sharp-tailed grouse) use the brushy creek bottoms in the Poplar River drainage, particularly during winter months, for feeding and escape cover. This person will assist the resident game biologist in determining distribution, abundance and habitat requirements of these species. Small mammals will be trapped along riverbanks to obtain a list of species. The abundance and distribution of porcupines and jackrabbits which occupy these habitat types will also be determined.

For approximately one-third of the year, this person will assist the regional Fisheries Manager in routine fish shocking and other duties wherever he is needed throughout Fish and Game Region 6.

The remaining third of the year will be spent assisting the biologist who is investigating fish populations of the Poplar River and upper Missouri River drainage. This will include finding important spawning locations, locating nursery areas and estimating numbers of game fish in stream sections. Nine stations will be established in the Poplar River drainage to sample streambottom macroinvertebrates. Specimens of large clams known to be abundant in at least part of this area will also be collected. Thermographs will be read on the Poplar River and tributaries and work will be done toward the determination of streamflows in the Poplar drainage.

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Title and Number of Positions Supervised			
Title No) , 1	Title .	No.
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None			
	}		
N/A			····

		and the second s	
			
Equipment or Machinery used	1		
TYPE	+	TURE	
· · · · · · · · · · · · · · · · · · ·	*	TYPE	<u> </u> _
Gill Nets, Seines,	 	Water quality samplers	
Standard fish sampling equipment	 	Spotting scope & binoculars	
Electrofishing boat	 	Several types of vehicles	
Streambottom samplers	<u> </u>		
References, Manuels and/or Guides available to assist incumbent	t in perf	ormence of work (include statutes, regulations, etc.)	
N/AN/A			
			
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Examples of Duties and Mesponsiphities Continued:

	Technical Assistance Available (i.e. supervisor, specialists, etc how						
	Technical assistance is available	f	rc	mc	е	ac	ch of immediate supervisors
	plus the regional coordinator and	_0	th	ie:	r_	m€	embers of his staff.
1							
1	·						
1	Work Assignment Methods and Procedures (How is work assigned to and kinds of decisions already made.	por	siti	on:	wh	161	form is it in (such as penciled lay out, rough draft, etc.)
1	Work assignments will be made by im	me	di	a	te	٤	supervisor, depending on which
-	part of the project is being worked	01	n.				
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•			_	_			
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1			_	_		_	
1	Consequence of Error and How Errors are Discovered by Others (wh service breakdowns, etc.)						
	Errors could result in loss of impor-						
٦	possible noncompliance with MEPA, th						
1	quality act.						
1							
7					_		
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- 34				_			
1	Arese of Decisions and Commitments (is the employee free to speak specific course of action - how is this accomplished?)				-		
	•				-		
	specific course of action - how is this accomplished?)	il:	1	p	ro	ba	ably only contact the public
	specific course of action how is this accomplished?) This person is a field worker and wi	il:	1	p	ro	ba	ably only contact the public
	specific course of action how is this accomplished?) This person is a field worker and wi	il:	1	p	ro	ba	ably only contact the public
	specific course of action how is this accomplished?) This person is a field worker and wi	il:	1	p	ro	ba	ably only contact the public
	specific course of action how is this accomplished?) This person is a field worker and wi	il:	1	p	ro	ba	ably only contact the public
	specific course of action how is this accomplished?) This person is a field worker and wi	il ak:	l in	pi	t	b <i>e</i>	ably only contact the public trappers and hunters.
	This person is a field worker and will if conducting a creel census or spea	il aki	in	pi	t	b <i>e</i>	ably only contact the public trappers and hunters.
	This person is a field worker and will if conducting a creel census or spea	il aki	l in	pi	ro t	bā o	ably only contact the public trappers and hunters.
	This person is a field worker and will if conducting a creel census or spearing conducting a creel census or spearing contacts (Type, neture, and frequency of contacts with personal Contacts (Type, neture, and frequency of contacts with personal contacts (Type, neture, and frequency of contacts with personal contacts (Type, neture, and frequency of contacts with personal contacts)	il aki	l in	ping	ro t	bā o	ably only contact the public trappers and hunters.
	Personal Contacts (Type, nature, and frequency of contacts with person is a Cierical Staff	il:	l in	ping	ro t	bā o	ably only contact the public trappers and hunters.
	Personal Contacts (Type, nature, and frequency of contacts with personal Staff Professional Staff	il: ak:	l in	ping	ro t	bā o	ably only contact the public trappers and hunters.
	Personal Contacts (Type, nature, and frequency of contacts with personal Staff Professional Staff Management Staff	il: ak:	l in	ping	ro t	bā o	ably only contact the public trappers and hunters.
	Personal Contacts (Type, nature, and frequency of contacts with personal Staff Professional Staff Agency Directors, Chairpersons, etc.	il: ak:	l in	ping	ro t	bā o	ably only contact the public trappers and hunters.
	Personal Contacts (Type, nature, and frequency of contacts with personal Staff Professional Staff Agency Directors, Chairpersons, etc. Legislators	il: ak:	l in	ping	ro t	bā o	ably only contact the public trappers and hunters.
	Personal Contacts (Type, nature, and frequency of contacts with personal Staff Professional Staff Management Staff Agency Directors, Chairpersons, etc. Legislators Private Sector Professional Staff	il: ak:	lin	ping	ro t	bā o	ably only contact the public trappers and hunters.
	Personal Contacts (Type, nature, and frequency of contacts with personal Staff Professional Staff Agency Directors, Chairpersons, etc. Legislators Private Sector Managers	il: ak:	lin	ping utti	ro t	bā o	ably only contact the public trappers and hunters.
	This person is a field worker and will if conducting a creel census or speaking contacts (Type, nature, and frequency of contacts with personal Contacts (Type, nature, and frequency of contacts with personal Staff Professional Staff Management Staff Agency Directors, Chairpersons, etc. Legislators Private Sector Managers General Public	il: ak:	in B	ping c x	de D	of E	ably only contact the public trappers and hunters. the agency) PURPOSE
	This person is a field worker and will if conducting a creel census or speak if conducting a creel census or speak Personal Contacts (Type, nature, and frequency of contacts with personal Staff Professional Staff Management Staff Agency Directors, Chairpersons, etc. Legislators Private Sector Managers General Public Others ()	il: ak:	in B	ping c x	de D	of E	ably only contact the public trappers and hunters. the egency) PURPOSE
	This person is a field worker and will if conducting a creel census or specific census or	il: ak:	in B	ping c x	de D	of E	ably only contact the public trappers and hunters. the agency) PURPOSE
	This person is a field worker and will if conducting a creel census or specific census or	il: ak:	in B	ping c x	de D	of E	ably only contact the public trappers and hunters. the agency) PURPOSE

97.	This person as well as s winters can	setting to	raplines	ith el in the	ectrofishing eques winter in north	lipment, boa leastern Mon	its,	etc. where	
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19	Supervision Level. Des		·						; ;
	This person field perso	will be onnel, by	supervise the region	ed by onal c	immediate superi cordinator.	or and, as	all		•
									• • • • • • • • • • • • • • • • • • •
	Immediate	Incumbent			Title	Class Code	Grade	Position No.	
	19A. Supervisor	Dick Jo	ohnson		Reg. Coord.	041020	17	286	
20	Minimum Education				Specialization and Coursework form duties of the position, in			needed to pe	
	Grade Schoo Ability to read & write	High School 8 9 10 11 12	1 2 3 B M A	Ph D	Fish and wildl	ife managem	ent		•
		1_1_1							; ;
21	Minimum Experienc		erform Duties of P	Position:					
	None require	ed							
							· 		•
-	:								
23	Special Qualification	ns (licenses, certif	icates, etc.)		· .				
	N/A								
+				:					
23	Travel Required	yes 🗶	no	Daily	2 to 3 times a w		imes a m		
24	parform the work of	f this position.)	·	; 	eracteristics, skills, etc. Which er				· · ·
	This person as well as	must hav	re some kn ledge of	nowled standa	ge of basic game ard fishery inve	biology, mestigation me	ethoc ethoc	ls, etc	

25	Aciditional desirable	knowledges, skill	ls, and abilities the	at might cor	ntribute to outstanding Job perf	ormance.			<u>!</u> -
	N/A				· · · · · · · · · · · · · · · · · · ·			, 	
	d rather than the state of the	Milyan ir jamasasa kallanda ir interasio sasaasa sasaasa sa							
									·
26	Signature of Agency	Director	4121	/Dete 77	Signature of Administrator,	Personnel Division		Date	
									, t t

P	roposi	PARTN	TATE OF MONT	ISION		POSITION PROPERTY PRO	TION	Personnel Use Only			Grade		330 ·	4
1	Present Classifica	ation	041029	Fish	eries a	nd Wildlife	Biologist	III			14	1	86	
2	Agency			<u>ish and</u> es Mgmt	Section	on		erie	S	Unit	Regi	ion 3		
3	Address		city Bozeman		Bullding & S Rt 3	Street, Box 274			А	oom Numl	oer		8usiness Tel 586-54	
4	Personnel Division Use Only	New 1	itle		•			Clas	s Code	Grade	Po	sition N	io. 	
5	Pers Oiv Use		Desk .	Audit	Field	Audit	Effective Dat	e of A	ction:					
6	Genera	l State	ement of Duites	and Respo	onsibilities (f	Major duties and	responsibilities o	f positi	on)					
	Conc	luc t	s biologica	al rese	earch st	udies on ac	quatic popu	lati	ons o	f stre	ams a	and l	akes.	
7	• Specifi	c .State	ements and Exar	nples of D	uties and R	esponsibilities (ite	emized examples	and sp	ecific st	atements)				

Collects biological information on aquatic populations (including invertegrates and fish) and physical data on stream conditions; collects, compiles, and analyzes data obtained from surveys and investigations. Annual work plans and reports are prepared. Keeps abreast of developments in management and related fields through the literature, intra-agency meetings, workshops and correspondence. Study objectives and management principles are explained at meetings and through other available media in accordance with department policies. Inspections are made on planned or proposed programs involving habitat (stream preservation activities and SB310 administration) in the assigned area and reports on probable effects of such projects. Other related duties are performed as required.

•	Specific Statements and Examples of Duties and Responsibilities Co	ont	inued.
ý			
_	Title and Number of Positions Supervised	-1	
i	Title No.	-	Title No.
	Laborer I 1		
	·		
			•
_	Describe Nature of Supervision (How are work assignments made by	inc	cumbent; does incumbent review, approve, recommend approval
	of subordinates' work; does incumbent hire, recommend discharge, e	vale	uate performance, etc.)
	Work is assigned to subordinates verbally	ar	nd through written assignments. All work
	15 reviewed by the incumbent and approval	of	completed work is made. All recommendations rmance evaluations are made by the incumbent.
	Ter in ring and arsenarying as were as peri	UI	
0	Equipment or Machinery used		
	TYPE	 %	TYPE %
	Electrofishing and other fish sampling		
1	gear		Scientific apparatus
	Engineering equipment		
	Small power tools		
1	References, Manuals and/or Guides available to assist incumbent in	۱ و	erformance of work (include statutes, regulations, etc.)
	• • •		
			*

	Technical Assistance Available (i.e. supervisor, specialists, etc ho	ow utilize	đ, i	e . p	orot	olem solving, planning, technical advice or review)
	Technical assistance available from Regi	ional	Fi	she	 eri	les Manager
			-			
1						
	Work Assignment Methods and Procedures (How is work assigned and kinds of decisions already made.	to posit	ion;	wh	at 1	orm is it in (such as penciled lay out, rough draft, etc.)
1	Work to post and the training of	······································				3 - 6 1 1 1
	Work is assigned to incumbent through re Monthly activities are reviewed. Specia					
1	verbally.	AT WOL	<u> </u>	15.	315	milenes are wrecen and made
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1	Consequence of Error and How Errors are Discovered by Others	(what are	th:	ra	mif	ications of error, i.e. costs in dollars, public relations,
	Engage in public polations would be have	.f.,] +				vities of the department which
	Errors in public relations would be harm might result in the loss of public access	s to	pr	Va	ate	e lands.
۱	3		-			
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- i	Areas of Decisions and Commitments (Is the employee free to sp	eak for 1	he.	ger	icy.	can employee commit state, agency, or unit to a
	specific course of action how is this accomplished?)					
	specific course of action how is this accomplished?) Employee is able to speak for the agency	 in_m	a t	er	`S_	of habitat destruction and in
	Employee is able to speak for the agency carrying out department policy. He can	/_in_m commi	at t	er che	`S e a	of habitat destruction and in gency to a specific course
	specific course of action how is this accomplished?) Employee is able to speak for the agency	/_in_m commi	at t	er che	`S e a	of habitat destruction and in gency to a specific course
	Employee is able to speak for the agency carrying out department policy. He can	/_in_m commi	at t	er che	`S e a	of habitat destruction and in gency to a specific course
	Employee is able to speak for the agency carrying out department policy. He can	/_in_m commi	at t	er che	`S e a	of habitat destruction and in gency to a specific course
6	Employee is able to speak for the agency carrying out department policy. He can	/ in m commi es (BL	at M,	er SC	e a	of habitat destruction and in gency to a specific course 208).
	Employee is able to speak for the agency carrying out department policy. He can of action through intra-agency activities	/ in m COMMi es (BL	at M,	ter S(e a	of habitat destruction and in gency to a specific course 208).
	Employee is able to speak for the agency carrying out department policy. He can of action through intra-agency activities	/ in m COMMi es (BL	at M,	ser S(cot	of habitat destruction and in agency to a specific course 208). the agency) PURPOSE other agency contacts
	Employee is able to speak for the agency carrying out department policy. He can of action through intra-agency activities Personal Contacts (Type, nature, and frequency of contacts with Professional Staff	/ in m COMMi es (BL	at M,	ter S(S a	of habitat destruction and in agency to a specific course 208). the agency)
6	Employee is able to speak for the agency carrying out department policy. He can of action through intra-agency activities Personal Contacts (Type, nature, and frequency of contacts with Clerical Staff Professional Staff Management Staff	/ in m COMMi es (BL	at M,	ser S(S a	of habitat destruction and in agency to a specific course 208). the agency) PURPOSE other agency contacts
6	Employee is able to speak for the agency carrying out department policy. He can of action through intra-agency activities Personal Contacts (Type, nature, and frequency of contacts with Clerical Staff Management Staff Agency Directors, Chairpersons, etc.	/ in m COMMi es (BL	at M,	de X	S a	of habitat destruction and in agency to a specific course 208). the agency) PURPOSE other agency contacts intra-agency meetings
66	Employee is able to speak for the agency carrying out department policy. He can of action through intra-agency activities Personal Contacts (Type, nature, and frequency of contacts with Clerical Staff Professional Staff Management Staff	/ in m COMMi es (BL	at M,	de X	S a	of habitat destruction and in agency to a specific course 208). the agency) PURPOSE other agency contacts intra-agency meetings
66	Employee is able to speak for the agency carrying out department policy. He can of action through intra-agency activities Personal Contacts (Type, nature, and frequency of contacts with Clerical Staff Management Staff Agency Directors, Chairpersons, etc. Legislators	/ in m COMMi es (BL	at M,	de X	S a	of habitat destruction and in agency to a specific course 208). the agency) PURPOSE other agency contacts intra-agency meetings
6	Employee is able to speak for the agency carrying out department policy. He can of action through intra-agency activities Personal Contacts (Type, nature, and frequency of contacts with Clerical Staff Professional Staff Management Staff Agency Directors, Chairpersons, etc. Legislators Private-Sector Professional Staff	/ in m COMMi es (BL	at M,	de X	S a	of habitat destruction and in agency to a specific course 208). the agency) PURPOSE other agency contacts intra-agency meetings
6	Employee is able to speak for the agency carrying out department policy. He can of action through intra-agency activities Personal Contacts (Type, nature, and frequency of contacts with Clerical Staff Management Staff Agency Directors, Chairpersons, etc. Legislators Private Sector Professional Staff Private Sector Managers	/ in m COMMi es (BL	at M,	de X	S a	of habitat destruction and in agency to a specific course 208). The agency) PURPOSE other agency contacts intra-agency meetings intra-agency meetings
6	Employee is able to speak for the agency carrying out department policy. He can of action through intra-agency activities Personal Contacts (Type, nature, and frequency of contacts with Clerical Staff Professional Staff Management Staff Agency Directors, Chairpersons, etc. Legislators Private Sector Professional Staff Professional Staff Private Sector Managers General Public	Commies (BL	at t	de D	of E	of habitat destruction and in agency to a specific course 208). The agency) PURPOSE other agency contacts intra-agency meetings intra-agency meetings contacts with public when carrying out normal duties
6	Employee is able to speak for the agency carrying out department policy. He can of action through intra-agency activities Personal Contacts (Type, nature, and frequency of contacts with Clerical Staff Professional Staff Management Staff Agency Directors, Chairpersons, etc. Legislators Private Sector Professional Staff Provate Sector Managers General Public Others ()	Commies (BL	at t	de D	of E	of habitat destruction and in agency to a specific course 208). The agency) PURPOSE other agency contacts intra-agency meetings intra-agency meetings contacts with public when carrying out normal duties
G	Employee is able to speak for the agency carrying out department policy. He can of action through intra-agency activities Personal Contacts (Type, nature, and frequency of contacts with Clerical Staff Professional Staff Management Staff Agency Directors, Chairpersons, etc. Legislators Private Sector Professional Staff Private Sector Managers General Public Others () *(A) Many times daily; (B) Once or twice a day. (C) Several times	Commies (BL	at t	de D	of E	of habitat destruction and in agency to a specific course 208). The agency) PURPOSE other agency contacts intra-agency meetings intra-agency meetings contacts with public when carrying out normal duties
G	Employee is able to speak for the agency carrying out department policy. He can of action through intra-agency activities Personal Contacts (Type, nature, and frequency of contacts with Clerical Staff Professional Staff Management Staff Agency Directors, Chairpersons, etc. Legislators Private Sector Professional Staff Private Sector Managers General Public Others () *(A) Many times daily; (B) Once or twice a day. (C) Several times	Commies (BL	at t	de D	of E	of habitat destruction and in agency to a specific course 208). The agency) PURPOSE other agency contacts intra-agency meetings intra-agency meetings contacts with public when carrying out normal duties
6	Employee is able to speak for the agency carrying out department policy. He can of action through intra-agency activities Personal Contacts (Type, nature, and frequency of contacts with Clerical Staff Professional Staff Management Staff Agency Directors, Chairpersons, etc. Legislators Private Sector Professional Staff Private Sector Managers General Public Others () *(A) Many times daily; (B) Once or twice a day. (C) Several times	Commies (BL	at t	de D	of E	of habitat destruction and in agency to a specific course 208). The agency) PURPOSE other agency contacts intra-agency meetings intra-agency meetings contacts with public when carrying out normal duties

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8					which affect the position - use exam			د 1 م	
	Working cond	itions inv	olve outsi	de work,	often under extreme or rain). Physical deman	unditions,	1.e.,	cold	
	carrying hea			(5110%,	rain). rhysical deman	us are orce	- gre	ac, 1.e.	• •
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					The state of the s				
					n kalan ki emeri dan dan ki emili ki ngan apanda nga paga angan di Pagandannigan yi ki dandan nga paga				
19	Supervision Level, De	scribe how pos	ition is supervise	d.	· · · · · · · · · · · · · · · · · · ·				
	Supervision	is of a ge	eneral natu	ire by an	administrative <mark>super</mark> i	or			
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_		Incumbent :		······································	Title	Class Code	Grade	Position No.	
	19A. Supervisor	Ronald M	Marcoux		Fish& Wildl. Superv.	041031	16	180	
20	Minimum Education	<u></u>		·	Specialization and Coursework. If	L	1	I	
	William Eddestron				form duties of the position, indicate				
	Grade Schoo	l High Schoo	ol College		Specialized in Fishe	ries Manage	ement	with a	
	Ability to read & write	8 9 10 11 1	2 1 2 3 B M		good background in b	oiological s	cienc	es and	
		†	Y		statistics				
1	<u> </u>		11111	<u>'</u>					
51	Minimum Summi	- D		(D				· · · · · · · · · · · · · · · · · · ·	
	Minimum Experience							 	
	A minimum of	f two year	's as a Fis	heries a	nd Wildlife Biologist	II is requi	red.		.
1									
122	Special Qualification	ns (licenses, cert	ificates, etc.)					`	
•					وروس المحالفة المحالية والمحالية والمحالة والمحا				<u>.</u>
					· · · · · · · · · · · · · · · · · · ·				.,
23	Travel Required	yes_X	no	Daily	X 2 to 3 times a week	2 to 3 ti	mes a m	onth.	
24	Knowledge Skills ar		scribe knowledge	٠ ادا	aracteristics, skills, etc. which are sp				
1	perform the work o	f this position.)	various knowledge	s, dominos, en	and constitution, seems, etc. wither and ap	ecinically job relate	o and e.	sential (O	
					involved in the inves				
					ds of statistical anal				
	aiso iliportar	rts and ma	ibility to H intain off	ective w	ate effectively verbal working_conditions_with	ry and in w public and	-othe	r employ	vees.
									<u> </u>
	Addict	· · · · · · · · · · · · · · · · · · ·							<u> </u>
25					intribute to outstanding job perform		A = - !	4447	
	Additional kr creative writ				niques would be benefi	cial, good	techn	ical and	<u>.</u>
	Creative will	cing SKIII	s would al	30 DE HE	τριαι.				
¹ [
26	Signature of Agency	Director		Date	Signature of Administrator, Para	onnel Division		Date	
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STATE OF MONTANA DEPARTMENT OF ADMINISTRATION

POSITION DESCRIPTION

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Per Use		<u> </u>

PERSONNEL DIVISION

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V	e-ant lassification		Class Code Classifi 0.41028	cation Title (Current or Propo heries & Wildli	sod) fe Biolog	ist II	Grada 13	12001 ^{No.}
			Department Fish &	Game	Division ECO	logical Ser	vices	
	Agency		Bureau Baselin s	Section Studies		Unit		·
	Addr ess		city Helona	Fish & Game		Room	Number	Business Te 449-2602
•	Personnel Division Use Only	New T	no 'isheries & f	lilālife Biologi:	st III	Class Code 0	Brade Pos 14	12001
	Pers USs		Desk Audit	Field Augit		te of Action:		

General Statement of Duites and Responsibilities (Major duties and responsibilities of position)

Supervise an interagency study planned by the Department of Fish & Game in cooperation with the Forest Service and possibly the BLM to evaluate the wildlife populations of the Cabinet Mountains prior to proposed development by mining companies. A management plan will be formulated for mountain goats, the key wildlife species in the area. Attention will also be focused on the grizzly bear, federally designated as a threatened species in Montana, as well as other game and nongame species.

Specific Statements and Examples of Duties and Responsibilities (itemized examples and specific statements)

The primary responsibility of this individual will be to influence land-management agencies in the implementation of a mountain goat man gement plan for the Capinet Mountains area of northwestern Montana. Mountain goat populations will be inventoried, habitats evaluated and critical use areas delineated. Recommendations will be made for mitigation of unavoidable habitat losses which may ensue from hard-rock mining and other mineral exploration activities.

In connection with the mountain goat research, the presence of other resident wildlife species will be documented because of the intensive rineral development foreseen for this area. All but one big game species found in Montana are present in this area, as well as bald eagles (classified as endangered by the federal government), other raptors, waterfowl, nongame and upland game birds. Other species of special interest include the grizzly bear and the wolverine, which, after being classified as a nongame species in need of special management, will be managed as a furbearer after July 1, 1979.

Additional duties will include coordinating wildlife information collected on three national forests with the Idaho Department of Fish and Came and the Bureau of Land Management, as well as coordinating biotelemetry research between the Ecological Services and Wildlife divisions of this department.

Also, the person in this position will frequently be asked to explain the department's position on wildlife habitat/mining problems to personnel from other state agencies, federal agencies, sportsmen's clubs and landowners in the study area.

Specific Statemonts and Examples of Dot examp Perportant	ties Coar	1.0 c (** · 3	•	
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Title and Number of Positions Supervised				
Title	No.	Title		No.
Two Forest Service employees	į			
(names unknown at this time)				
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Describe Nature of Supervision throw are work assignments ma	de by in:	umbant: does incumbent review	, approve, recommend appr	val
of supportunates' work; does incumbent hire, recommend discha				
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	Supervisor,	Ch	ie	£	of	Baseline Studies Bureau,
Administrator of Ecolo	gical Servic	es	Di	vi	si	on, Forest Supervisor
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Work Assignment Methods and Procedures and kinds of decisions already made.	(How is work assigned	to po	sitic	on;	what	form is it in (such as penciled lay out, rough draft, etc.)
						be outlined in the final contr weather. No specific daily
	(e.godino a la compaña de la c	A				
Consequence of Error and How Errors are service breakdowns, etc.)	Discovered by Others (what	are	the	rami	fications of error, i.e. costs in dollars, public relations,
and the Department of						between the Forest Service
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Areas of Decisions and Commitments (Is t specific course of action—how is this accommission person will frequently accommission to the second	he employee free to spe omplished?) ently be cal nd managemen	eak fo	u pt	pc	n t	to explain the department's to other state and federal
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	This person will work outdoors in	adverse working conditions. The study
15	in winter. Mountain goat habitat	red and characterized by deep snows is generally very rugged, rocky terrain
1	rin remote mountainous regions.	
8		
9	Supervision Lovel. Describe how position is supervised.	
3	This person, like all Fish and Gam	e field personnel, is supervised by
	the regional supervisor at his dis	cretion. Because of the nature of the
	contract with the Forest Service,	it will also be necessary for the
	incumbent to coordinate activities	with federal priorities.
•		
	19.4 Immediate Incumbent	Title Class Code Grade Position No.
ŕ	19A. Supervisor	
20	Minimum Education	Specialization and Coursework, If specialized knowledges are needed to per-
		form duties of the position, indicate minimum specialized coursework needed.
,	Grade School High School College	
	Ability to read & write = 8 9 10 11 12 1 2 3 A A D	Fish and Wildlife Management
21	Minimum Experience Required to perform Duties of Position:	
, 1	MS degree plus 2 years with the De	partment of Fish and Game
	<u></u>	
Ä		
22	Special Qualifications (licenses, certificates, etc.)	
	N/A	
?3	Travel Required yes_X no X Daily	2 to 3 times a week 2 to 3 times a month.
₽4	Knowledge, Skills and Abilities (Describe knowledges, abilities, chaperform the work of this position.)	practeristics, skills, etc. which are specifically job related and essential to
	Working knowledge of the technique	s of investigations of plant and animal
,	communities, methods of statistica	l analyses and techniques of report
	writing.	
;		
•		
25	Additional desirable knowledges, skills, and abilities that might cor	ntribute to outstanding job performance.
اند	The ability to work well with peop	le, public speaking ability
-		ildlife are all necessary for this
	position.	
s.	1	
•	Signature of Agency Director Date	Signature of Administrator, Personnel Division Date

(12)



CLASS SPECIFICATIONS

CLASS CODE	041028
GRADE	13
LAST LIPDATED	2 1/ 75

CCUPATIONAL GROUP

Biological Sciences

MONTANA CLASSIFICATION TITLE

Fisheries and Wildlife Biolgist II

DESCRIPTION OF WORK

GENERAL DUTIES: Performs professional activities in making field collections of biological, physical, and chemical data and conducting assigned surveys and investigations.

SUPERVISION RECEIVED: Works under close supervision of an administrative superior. SUPERVISION EXERCISED: Supervises student assistants as assigned.

EXAMPLE OF DUTIES

Collects, compiles, and analyzes data obtained from surveys and investigations; uses statistical methods in designing sampling techniques and analyzing data collected; reviews scientific literature, writes technical reports or articles; performs related work as required.

MINIMUM QUALIFICATIONS

KNOWLEDGES: Working knowledge of the techniques of investigations of plant and animal communities, methods of statistical analyses and tehoniques of report writing.

SPECIAL SKILLS: None.

ABILITIES: Ability to design and carry out scientific research, to work outdoors in adverse working conditions; to be physically able to perform assigned duties; to establish and maintain effective working relationships with employees, other agencies, and the public; to communicate effectively verbally and in writing. EDUCATION: Master's degree in Fish and Wildlife Management or closely related biological science.

EXPERIENCE: None.

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CLASS SPECIFICATIONS

GRADE 11

LAST UPDATED 12-3-75

OCCUPATIONAL GROUP

Biological Sciences

MONTANA CLASSIFICATION TITLE

Fisheries and Wildlife Biologist I

DESCRIPTION OF WORK

GENERAL DUTIES: Performs entry level professional activities in making routine field collections of biological physical and chemical data; conducts assigned surveys and investigations.

SUPERVISION RECEIVED: Works under immediate supervision of an administrative superior SUPERVISION EXERCISED: Works as lead worker over student assistants as assigned.

EXAMPLE OF DUTIES

Assists in collecting, compiling, and analyzing data obtained from surveys and investigations; reviews scientific literature; writes technical reports or articles; performs related work as assigned.

MINIMUM QUALIFICATIONS

KNOWLEDGES: Some knowledge of the principles and techniques of investigating plant and animal communities and the methods of statistical analysis.

SPECIAL SKILLS: None.

ABILITIES: Ability to assist in scientific research; to work outdoors in adverse working conditions; to work harmoniously with other employees and the public; to communicate effectively verbally and in writing; to perform physical assignments as required.

EDUCATION: Bachelor's degree in fish and wildlife management or a closely related

biological science. EXPERIENCE: None.

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DESCRIPTION -

(PIQ and PD combined 7/79)

The Position Description should provide a detailed statement of the duties and responsibilities assigned to an employee. As the building block of an effective personnel administration program, the Position Description must be completed to assist in classification, pay, recruitment, selection, performance evaluation, training, staffing analysis and other management functions. Thus, in order for this form to be effective, adequate time and effort must be expended in following its instructions, in understanding its intent and in completing it.

Each agency may decide who should complete the form. Considerations that affect this choice are the circumstances for completing it, the desire to stimulate employee participation and interest, and the authority and responsibility of management to determine the duties and responsibilities of positions. The form does require that management complete the sections concerning physical demands, supervision received and requirements. Signature blocks have been provided to allow larger agencies several levels of review and approval. Each agency should establish its own policy and procedure regarding the review and approval of the form.

		T		LEASE TYPE OR PRI		<u> </u>		Oneisian Nia		
l	Classification	Current:		Title		Class Code	Grade	Position No.		
		Proposed:	Fish & Wi	ldlife Biologis	it 11		13	13504		
			Departm		Division or equivalent					
	Agency	Fish,	Wildlife				sheries			
	, Agonoy		Bureau or equ	ivalent S	Section or equivalen	t	Unit or equi	ivalent		
_			City	Building & Street	Room Nu	nber	Business T	elephone.		
	Address	Billi	ngs 112	5 Lake Elmo Dri	ve		252-	-4654		
	Prepared by:	Employee Supervisor		Name of Employee:	Patr	ick E. Ma	rcuson			
	Describe the ac	tivity, function,	product or serv	rice of the office or work	unit in which the p	osition is situa	ted:			
				sion - regional						
				on the sport f						
		measures to determine impacts of development on the fishery resource and make								
	recomme	recommendation to maintain, protect and enhance the fishery.								
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;	DUTIES AND	RESPONSIBIL	ITIES OF POS	SITION:						
	organize the di performed and verb, an objec to understand	escription into o can be used t t, an output ar what is taking	duties and tasks to group related nd how accomp place in the w	es of the position. Begin beginning with the mos tasks. Task statements lished. Use language that ork activities described. mplete this section by est	it important duties, are effectively writ t will enable a perso Avoid words that a	A duty is a latten by using to not familiate not graphic	rge segment or o the following for with the work c, such as "assis	category of work ormat: an <u>action</u> c of the position		
1	Responsible for conducting stream and lake surveys.									
į	Responsible for assessing minimum stream flows for fisheries of numerous game									
	Respons	ible for	assessing	minimum stream	ı flows for	fisheries	s of nume	Cous dame		
	Respons fish sp	ible for ecies, in	assessing cluding co	minimum stream ollecting, anal	n flows for yzing and r	fisheries eporting	s of numer findings	rous game •		
	fish sp	ecies, in	cluding co	minimum stream ollecting, anal gear and metho	yzing and r	eporting	findings	•		
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1	SUPERVISION	EXERCISED:	List the po						l.			
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	Position No. Describe the natreview, evaluate	ure of supervisio , train, hire, disc	Tit on exercised	d in the fol	nober and to	eas: setti	Position No.	y supervised			and priori	ities; ass
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	Describe the nat review, evaluate Superv	ure of supervision, train, hire, discribed is a tempor	on exercised sipline.	d in the fol	lowing are	eas: setti	Position No.	y supervised	rk plans, wor		and priori	ties; ass
	Describe the nate review, evaluate Superv	ure of supervision, train, hire, discribed is tempored in the control of the cont	on exercised sipline.	d in the fol	lowing are	eas: setti	Positions directly Position No. In policies, ob work time.	y supervised pjectives, wo	rk plans, wor	rk methods		ties; ass
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9	PERSONAL CONTAC			onal contacts necessary to r	perform the work of this position I	nu union che falle di a					
	Describe the types, rea as a guide:	sons for and free	deuch of bein	unal contacts necessary to p		by using the following					
	clerical professional management	clientele general publi private busin etc.		to provide information to make arrangements to negotiate to persuade	to gather information to elicit cooperation to advise etc.	FREQUENCY daily weekly monthly yearly					
	Indicate whether contact	cts are within wo	rk unit, within	agency or external.							
	Clerical	to pr	ovide dat	a and make arran	gesmen ts	weekly					
	Professional			gather informat	ion, to	weekly					
	Managemen t			gather informat	ion, to	weekly					
	General public private busines DECISIONS AND CO			ormation, elicit	cooperation	monthly					
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					fluence and significance of the on the extent and finality of a						
	outlined in Ite	em 6. This	s require	and analysis of a trained fish sional supervisional	data related to res eries scientist with on.	ponsibilities ability to					
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11	To the best of my known duties & responsibilities herein are accurate &	described E	nployed gnature:	Fatrick Man	(usp Date: Au	gust 31, 1982					
12	IMMEDIATE SUPERV	'ISOR: Nam	•: <u>Patr</u> i	ck E. Marcuson	Title: Regional Fig	shery Manager					
	ADDITIONAL COMMENTS OR INCORRECT ITEMS:										
13			•								
14	SUPERVISION RECEIVED										
	Describe how this position is supervised by using the following as a guide:										
	1. How is work assigned, i.e., in what format, by whom, etc.? 2. How are work methods, procedures and priorities determined? 3. What guidelines, manuals, procedures & references are available & how are they used? 4. What assistance is available from others, i.e., supervisor, coworkers, outside specialists, etc.? 5. How is work reviewed, i.e., by whom, how often, by task, by objective, what methods, etc.? Fisheries Biologist Supervision — will outline short and long-term objectives of job. Methods and priorities will incorporate the best of the state-of-the-art analysis techniques. Work will be reviewed as necessary by the supervisor to ensure the time schedule and output are being met.										
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STATE OF MONTANA DEPARTMENT OF ADMINISTRATION PERSONNEL DIVISION

MANAGEMENT

SUPERVISOR /

OR

EMPLOY

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COMPLET

- - POSITION DESCRIPTION

Jse Only

(PIQ and PD combined 7/79)

The Position Description should provide a detailed statement of the duties and responsibilities assigned to an employee. As the building block of an effective personnel administration program, the Position Description must be completed to assist in classification, pay, recruitment, selection. performance evaluation, training, staffing analysis and other management functions. Thus, in order for this form to be effective, adequate time and effort must be expended in following its instructions, in understanding its intent and in completing it.

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Before proceeding, PLEASE READ THE ENTIRE FORM to understand how sections relate to each other and to avoid repeating information. If there are any questions about completing this form, contact your agency personnel officer or the State Personnel Division at 449-3871.

PLEASE TYPE OR PRINT CLEARLY Position No. Class Code Grade Current: 22993 Fish & Wildlife Biol. I 041027 11 Classification Proposed: Fish & Wildlife Biol. II 041028 13 Same Division or equivalent Department, Agency or University Unit Ecological Services Fish, Wildlife & Parks Agency Bureau or equivalent Unit or equivalent Section or equivalent Helena 449-2602 **Building & Street Business Telephone** City Room Number Address ☐ Employee Keith Aune Prepared by: Name of Employee: KXSupervisor/Management Describe the activity, function, product or service of the office or work unit in which the position is situated: A contract has been negotiated with the Bureau of Land Management to study effects of oil and gas exploration/extraction activities on grizzly bears inhabiting the BLM lands along the Rocky Mountain Front, and the Blackleaf Wildlife Management Area in particular. The grizzly is classified as a threatened species, and recommendations made as a result of this study may well be critical to the bear's survival in this part of Montana. DUTIES AND RESPONSIBILITIES OF POSITION: Describe the duties, tasks and responsibilities of the position. Begin with a general statement of what the position does and then organize the description into duties and tasks beginning with the most important duties. A duty is a large segment or category of work performed and can be used to group related tasks. Task statements are effectively written by using the following format: an action

verb, an object, an output and how accomplished. Use language that will enable a person not familiar with the work of the position to understand what is taking place in the work activities described. Avoid words that are not graphic, such as "assists", "develops", "handles", "processes" and "works with". Complete this section by estimating the percent of time spent on each duty.

The reason for this reclassification request is that the oil and gas activities anticipated in this area have become a reality. The biologist in this position will now be charged with making recommendations at the same time his monitoring activities are being carried on, and these recommendations will be critical to the survival of the bear. Also, he will be working with only limited supervision and with severe time restrictions.

This biologist will study the daily activities of grizzly bear in an attempt to determine how oil and gas drilling and the associated impacts will affect these bears. This will be done by trapping and sedating bears, equipping them with radio collars and monitoring their movements by both aerial and ground observa-Recommendations will be made on critical areas and critical times of year, as well as placement of roads and camps.

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rtinued

Traps have been placed in areas of known grizzly use. When a bear is found in a trap, it is tranquilized by the use of a Palmer "cap-chur" gun, metal tags are placed in both ears for future identification, and it is equipped with a radio collar. The bear is weighed and zoological measurements taken. A premolar is pulled and a microtome section is made of the tooth to determine the age of the bear. He is checked for ticks and parasites and given a shot of antibiotic. Blood samples are taken to determine genetic traits over a long-time study. The bear is observed until he is fully recovered from the drug and turned loose.

The bear's movements are monitored by radio telemetry through weekly aerial observations, as well as by ground tracking. The specific locations where bears are observed are visited, and the types of habitat used by the bear are noted. Vegetative samples are taken, signs of activities are observed, and scats are collected. Scats will eventually be analyzed for food habit studies.

Movement patterns of monitored bears will be mapped so that areas critical to the bear's survival may be avoided when siting roads, camps, etc. A detailed report will be compiled at the close of the contract.

(Attach additional sheets if necessary)

7 SUPERVISION EXERCISED: List the position number and title of positions directly supervised.

	Position No.	Title	Position No.	Title
				·
I				
			•	
•		* *		

Describe the nature of supervision exercised in the following areas: setting policies, objectives, work plans, work methods and priorities; assign, review, evaluate, train, hire, discipline.

As funds are available, the biologist in this position will have a temporary assistant. It will be necessary to closely supervision this person for his own safety, as well as to provide technical expertise.

8 EQUIPMENT OR MACHINERY USED: Indicate the percent of total work time.

	Type	%	Түре	%
	Spotting scope, cap-chur gun,			
	snare traps, veterinary			
j	antibiotics, 4-wheel drive			
1	vehicle, radio telemetry equip	me	nt	
ļ				

-		
	9	PERSONAL CONTACTS
		Describe the types, reasons for and frequency of personal contacts necessary to perform the work of this position by using the following as a guide:
أند		WHO WHY FREQUENCY
	-	clerical clientele to provide information to gather information daily professional general public to make arrangements to elicit cooperation weekly management to private business to inegotiate to the cooperation weekly monthly a subject of the cooperation of the cooperation weekly monthly a subject of the cooperation of the cooperation weekly and the cooperation of the cooperation weekly and the cooperation of the cooperation o
		Indicate whether contacts are within work unit, within agency or external
PART I: continued		While the person in this position is a field biologist, it will be necessary for him to speak to representatives of the oil and gas industry, as well as landowners, to explain the needs of the bear, areas to be avoided by human activities, and measures that could reduce the impact of oil and gas exploration and extraction on the bear.
:	10	DECISIONS AND COMMITMENTS: SCOPE AND EFFECT
PARI		Describe areas, kinds and impact of decisions and commitments; the effects, influence and significance of the work of the position; the consequence of error and subsequent accountability, and limitations, on the extent and finality of actions and decisions.
		Decisions and recommendations reached through this study may very
		well be critical to the survival of the grizzly in this part of
		Montana; however, these decisions and recommendations will be made after consultation with department superiors.
		made arger consurtation when departments expenses
	11	To the best of my knowledge, the duties & responsibilities described herein are accurate & complete. Employee Signature:
-	12	IMMEDIATE SUPERVISOR: Name: Kebet & Matter Title: Barer Chief
SUPERVISOR/MGMI		ADDITIONAL COMMENTS OR INCORRECT ITEMS:
	13	
3		
≩ [14	SUPERVISION RECEIVED
5		Describe how this position is supervised by using the following as a guide:
18.4	ļ	1. How is work assigned, i.e., in what format, by whom, etc.? 2. How are work methods, procedures and priorities determined?
Ž .		3. What guidelines, manuals, procedures & references are available & how are they used? 4. What assistance is available from others, i.e., supervisor, coworkers, outside specialists, etc.? 5. How is work reviewed, i.e., by whom, how often, by task, by objective, what methods, etc.?
COM.		Objectives are outlined in the project contract; methods and
100		procedures, while standard to a wildlife study, are also largely
H H		innovative because of the unique character of the area in which the study is being carried on. Daily activities are determined
2		by the weather, activities of the preceding day and personal dis-
=		cretion. Advice and physical assistance are available from regiona
ARI 11: 10		wildlife personnel. Reports and recommendations will be reviewed by the bureau chief.

أنها

	15	KNOWLEDGES, SKILLS AND ABILITIES						
		Describe the knowledges, skills and abilities (KSA's) that are specifically job related, essential to perform the work of this position and are essential for appointment to this position. Do not include those things typically learned on the job.						
		A basic knowledge of wildlife biology is essential, with specialized study in the habits of grizzly bears. Personal initiative is imperative.						
		Which of the above can be used to distinguish superior performance?						
-								
nue	16	EDUCATION AND EXPERIENCE						
II: continued		Describe specific kind, amount and level of education (curriculum, courses; specialization) and experience that indicate the source of KSA's and that can be used in selecting a person for this position.						
ART		A master's degree in fish and wildlife management is required for this position, as well as field experience.						
Р								
	17	PHYSICAL DEMANDS AND WORKING CONDITIONS						
		Describe any physical demands, working conditions or job hazards that affect how the incumbent performs the job or that impose additional requirements in selecting a person for the position or that affect the complexity and nature of work. It will be necessary for the person filling this position to be in very good physical condition, as the study area is mountainous						
		and the animals to be handled are heavy, hard to manage and very dangerous.						
	18	To the best of my knowledge, the statements in Parts I and II are accurate and complete. Supervisor's Signature: Date:						
		ADMINISTRATIVE REVIEW AND APPROVAL: Agency option except number 3						
		Comment: Additional comments attached Cut 72 Cut 73 Cut 73 Cut 74 Cut 75						
١,		1. Signature: Title: Date:						
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88		Comment: Additional comments attached						
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- 10		2. Signature: Date:						
PART		Comment: Property of the first						
		3. Agency Director or Designee: Date:						

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the Cooperative Instream Flow Group's Incremental Flow Analysis Method.

To accomplish this, methods will be developed for sampling eggs and larval fish in large rivers and perfecting a paddlefish monitoring and telemetry system.

Habitat measurements will be made for certain life history stages of selected fish species. Physical channel features will be measured according to procedures authorized by the Instream Flow Group. Life history studies will emphasize research on spawning times and physical conditions under which the major species spawn. Cross-sectional profiles will be done on major spawning areas.

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STATE OF MONTANA

DEPARTMENT OF

FISH, WILDLIFE AND PARKS

Long Range Information Processing Plan

January 1983

PREFACE

The statewide data processing plan has been instrumental in assisting the State of Montana in planning for data processing expenditures. This department is planning to provide data processing resources to many parts of the department which do not currently have data processing capabilities. To make this implementation as cost efficient as possibile, we have completed a long range data processing plan for this department. In this plan, we have:

- Set objectives and made recommendations concerning the operation of data processing resources in this agency.
- 2. Identified needs that would justify the projected expenditures.
- Set up an internal mechanism to acquire data processing equipment and software.
- 4. Identifed statewide policy that affects data processing in our agency.

It is our desire that this plan will assist us in utilizing data processing in the best possible manner.

J. W. FLYNN, DIRECTOR

ACANOMIEDGEMENTS.

ADMINISTRATION

James W. Flynn

Orville W. Lewis

Ron Marcoux

Director

Deputy Director

Associate Director

DIVISION ADMINISTRATORS

Dave Mott

Ronald Aasheim

James Posewitz

Art Whitney

Erwin Kent

Ronald Holliday

Eugene Allen

Centralized Services

Conservation Education

Ecological Services

Fisheries Division

Law Enforcement

Parks

Wildlife Division

REGIONAL SUPERVISORS

Thomas Hay Region 1

James Ford Region 2

LeRoy Ellig Region 3

Nels Thoreson Region 4

Roger Fliger Region 5

Richard Johnson Region 6

Keith Seaburg Region 7

REGIONAL CONTACTS

Laney Hanzel Region 1

Denny Workman Region 2

Dick Vinceut Region 3

Don Childress Region 4

Bill Pryor Region 5

Harold Wentland Region 6

Al Elser Region 7

DATA PROCESSING STEERING COMMITTEE

Jim Herman Centralized Services

John Cada Wildlife Division

Bob McFarland Fisheries Division

TYPING

Fran O'Hara Word Processing Supervisor

Constance Mills Personnel Clerk III

Department of Fish, Wildlife and Parks Long Range Information Processing Plan Table of Contents

A. Introduction

B. Objectives, Recommendations and Discussion

- 1. Data processing should provide return on investment.
- 2. Establish policies and procedures for preparing and processing requests for data processing systems and services.
- 3. Establish and maintain a departmental data processing plan based on division needs.
- 4. Assure that data processing systems are responsive to user's needs at all organizational levels.
- 5. Standardizing data elements to facilitate interface between systems, information retrieval, and systems design.
- 6. Avoid software system duplication.
- 7. Assure adequate system documentation.
- 8. Provide adequate privacy and security for information contained in the computer system.
- 9. Provide D.P. training to department staff at all organizational levels.
- 10. Utilize the most cost efficient techniques possible from statewide perspective.
- 11. Centralized support for remote locations.
- 12. Hardware and software compatability.
- 13. Avoid duplication of data.

C. Inventory of current D.P. systems hardware

- 1. Function
- 2. Location
- 3. Manf.
- 4. Model
- 5. Desc.
- 6. Status
- 7. Purchase price
- 8. Monthly payment
- 9. Monthly maint.

D. Inventory of current D.P. systems software

- 1. Application name
- 2. Programming Language
- 3. Description

E. Inventory of current D.P. systems data files

- 1. Name
- 2. Residence
- 3. Confidentiality
- 4. Description of use

F. Inventory of D.P. systems personnel

- 1. Division
- 2. Classification
- 3. Position
- 4. FTE
- 5. Cost
- 6. Function

G. Current data processing expenditures

- 1. Software purchases and maintenance
- 2. Hardware purchases and maintenance
- 3. Computer processing
- 4. Personnel
- 5. Contracted software

H. Department software needs (by Division)

- 1. Basic need (definition)
- 2. Purpose
- 3. Man hours to implement
- 4. Size
 - a. amount of storage
 - b. frequency of updates
 - c. processing requirements

I. Department hardware needs (by Region)

- 1. CPU
- 2. Disk storage
- 3. Tape storage
- 4. Printer
- 5. Communications
- 6. Input
- 7. Misc. requirements
- 8. Estimate cost

J. Projected cost summaries for FY 84-85

Appendicies

- 1. Statewide data processing coordinators policies
- 2. Statewide data processing goals and objectives
- 3. Department security and privacy policy

A. Introduction --

The data processing revolution is here. The explosion has increased yearly since the development of the first electronic computer 40 years ago. Computers control many functions of our civilization and life would seem archaic without them. The problems we are faced with is not whether to use a computer or not, but how to best use them. We have this decision in not only our professional life, but our personal life.

The computer can be a most useful tool if used correctly. It can also be a frustrating experience. It is the objective of the Department of Fish, Wildlife and Parks that we we will do our best to make our relationship with the computer revolution both rewarding and productive.

To meet this objective, the department needs to assure futuristic planning, anticipation of need, and prompt response to staffing, equipment, and training needs as they pertain to data processing. In addition, this objective necessitates the establishment of an ongoing communicating mechanism that assures open, frank, and informed exchange of information between department personnel. This can be achieved through the establishment of a long range data processing plan. This document is our attempt at laying the groundwork for a very rewarding experience in the computer generation.

B.1 Objective --

That data processing should provide a return on the investment.

Recommendations --

- That all data processing service or hardward acquisitions be justified.
- That justification will include needs assessment, implementation costs, operation costs, and alternative methods.
- That priority of data processing acquisitions will be determined by the best return on the investment.

Discussion --

Acquiring data processing equipment and services is a challenging process. Even the most knowledgeable individual can be confused with the vast selection of hardward and software. No two are alike and comparing them is difficult. The assumption that must be made is how can I get the basic job done in the most efficient manner possible at the lessor price. The hardware or software that gives the most information, or provides the most efficiency to employees for the lessor cost is the system that should be given the priority to be acquired.

B.2 Objective --

To establish policies and procedures for preparing and processing requests for data processing systems and services.

Recommendations --

- 1. To establish a data processing steering committee composed of three members as appointed by the director and charged with the responsibilities and authority to:
 - a. Maintain a current Fish, Wildlife and Parks (FWP) long range data processing plan.
 - b. Review, approve, disapprove, or make recommendations concerning requests for data processing services; hardware; and software.
 - c. Recommend new policies or changes to policy to the directors office. Final decision concerning policy will be made by the director.
 - d. Be responsibile for coordination and obtaining necessary approvals from the State DP Coordinator and the Department of Administration and other departments as necessary.
 - e. Insure that the department is in compliance with statewide policies (appendix 1) and goals and objectives (appendix 2).

Discussion --

The need to have a steering committee to address DP issues and requests for services cannot be overemphasized. This committee would screen all requests for new systems and system modifications and develop policies and procedures relating to data processing. This steering committee would meet as necessary to review requests and develop DP policy.

B.3 Objective --

To establish and maintain a departmental data processing plan based on Division needs.

Recommendation --

That each division identify DP systems necessary to satisfy their information needs. To accomplish this, each division will review its activities and identify functions which can be automated resulting in saving of staff time or funds while maintaining, as a minimum, the quality of service currently experienced by manual operations.

Discussion --

The need for a long range plan cannot be over stated. It helps plan for some basic automated needs. At the same time, it assists in coordinating these needs between the various divisions of the agency. The compilation of these needs will allow for the acquisition of data processing resources that will provide the best services for the funding available.

B.4 Objective --

To assure data processing systems are responsive to the user's information needs at all organizational levels.

Recommendation --

That each division perform an annual review of their data processing systems. This review is to insure that the systems are providing the appropriate management level information, operating efficiently, user friendly, and that the latest data processing techniques are being utilized.

Discussion --

Data processing systems must be responsive to user information needs at the various levels within the organization. These information needs deal with decision making, planning, program monitoring and management, etc., therefore, the degree of detail and frequency of information necessary for each function and organizational level will vary widely. The line worker may need detailed lists of individual recipients. Upper management levels need summarization.

There are many other qualitative differences in the kinds of information needed by each level of managment. DP system-requirements must explicitly acknowledge these levels and provide capabilities for providing the needed information to each level.

B.5 Objective --

To standardize data elements to facilitate interface between systems, information retrieval, and system design.

Recommendations --

- That all new systems use standardized data elements insofar as is practical.
- That a list of standard data elements for all systems be developed by the DP steering committee.

Discussion --

Data elements are individual items of information that comprise a computer record such as conservation number, rate of pay, species, etc. Currently, each DP application can uniquely establish the content, meaning, and physical characteristics of these data elements. For example, birth date may be recorded as 032863 on one file, 630328 on another and MAR281963 on another file. This generates several inefficiencies in the DP process. A survey of

current systems would have to be conducted to determine those data elements used by more than one system.

B.6 Objective --

To avoid software system duplication.

Recommendations --

- 1. That an inventory of department data processing systems be maintained by the data processing steering committee.
- 2. That as new systems are developed, they be compared to the current inventory to avoid duplication.

Discussion --

The department should make effective use of existing systems and programs to avoid duplication. The multiple use of existing systems should not, however, create a difficult or unmanageable system to operate, maintain or use. Some duplication may not be bad if it promotes simplification and efficiency or reduces costs.

B.7 Objective --

To assure that each data processing system is adequately documented.

Recommendations --

- That system documentation be developed for each computer system.
- 2. That documentation should contain information on how the system was developed and how it works including input/output forms design, system flowcharts, program specifications/definitions, user and data processing operating instructions, etc.
- 3. That one complete copy of each system documentation shall be filed in the Administrator's office of the division for which the system is being utilized.
- 4. That all changes as a result of maintenance or modifications to existing systems shall be documented and included with the original system documentation.

Discussion --

Each computer system must be sufficiently documented to permit its maintenance or modification without reference to those individuals involved in its development.

Documentation should be commensurate with the systems' size and complexity. As an example, the documentation for a large, complex system, such as the drawing system must be much more detailed than those for a system of significantly less complexity.

One-time reports require no documentation. Once the report is run, there is not need for further use of the program(s) creating the report. Systems containing significant information (wildlife surveys, fishing surveys, sportsmen drawing, etc.) and/or which are run on a scheduled basis, must be documented.

All changes (maintenance or modifications) to existing systems must be documented and included with the original system documentation.

The documentation stored in the Administrator's office will serve as an off-site storage in case of disaster.

B.8 Objective --

To provide adequate privacy and security for information contained in the computer systems.

Recommendations --

 That the degree of privacy be commensurate with the sensitivity of the data in each system and be in conformity to State or Federal law, and Department rules on confidentiality.

- 2. That all systems shall limit access to prevent unauthorized data manipulation. (See Appendix "3" for more on data privacy).
- 3. That data files should be copied on a regular basis and stored in an offsite location.

Discussion --

The computer age has created a real problem with privacy of data. This starts with the sportsmen entrying his name and address on a license application. There are numerous individuals, business or organizations that desire to have access to this information. The department must make every effort possible to protect this information from access by individuals for any function other than that required by the agency. To protect data files from accidental or intended distruction, it should be copied and retained in an off-site location.

B.9 Objective --

To provide data processing training to department staff at all organizational levels.

Recommendations --

That the data processing steering committee promote and coordinate ongoing training to all levels of the department.

Discussion --

One of the frustrations to a program manager is that certain technologies may be available that could greatly enhance the performance of a division's program. Unfortunately, it can be very difficult to acquire information about this technology or once having acquired it, to be able to properly utilize it without proper training. The best example of this is data processing. This technology can have a tremendous impact on a division's program, but it is very technical in nature. To best utilize this technology, it is imperative that department personnel, whether they are directly involved with the operating of a data processing system or not, should have an opportunity for training.

B.10 Objective --

To utilize the most cost efficient techniques possible from a statewide perspective.

Recommendations --

- That the data processing steering committee review requests and consider such requests based on the cost effectiveness from a statewide perspective.
- That whenever it is practical, a centralized system shall be utilized to provide data processing services.

 That all cost justifications must consider the option of utlizing appropriate centralized systems.

Discussion --

The decision to develop a remote system or utilize a centralized system can be very difficult. This can be true for all applications whether it is a data entry need or an information need. The justification that must be provided must include the cost from a statewide perspective. If the centralized system can provide the required service, it should be given first consideration.

B.11 Objective --

To provide centralized support for remote locations.

Recommendations --

 That centralized data processing support shall be provided by the data processing steering committee. The remote users, primarily the regional offices, will receive assistance as required to best utilize their equipment. 2. That centralized support will include software development, software acquisitions, hardware acquisitions, technical support of computer operating systems, preventative maintenance, operations training, hardware and software problem solving, supply and material acquisition, resolving communication difficulties, and contacting vendors as required for servicing of hardware or software.

Discussion --

Computers are like any complicated machine, they are difficult to understand without technical background or training. It requires a large effort and considerable time to keep up with technological changes. It is more efficient for a limited number of employees with the proper technical background to keep up with the state of the art than employees at each remote location. The data processing steering committee would also be a clearing house for problem resolution. Frequently, a problem at one remote location is also being experienced at others. Thus, centralized problem solving can be highly productive. Supplies purchased centrally can also provide a savings when purchased in quantity.

B.12 Objective --

That all hardware and software must be compatible.

Recommendations --

- 1. That all requisitions for data processing hardware or software for remote locations shall require that any hardware or software received must be compatible with other remote systems and the state central computer.
- 2. That DP systems be written so as to utilize only those software languages which the department supports and for which the department can provide technical backup. The use of all other software languages should be for "one-time" applications and justified by exceptional conditions.

Discussion --

The investment that the department will have in data processing systems require that hardware and software must be compatible between each of the remote locations and the centralized system. Compatibility will provide efficiency in operations. A good example would be a computer program that is developed or purchased for one remote location can be utilized at other locations. Compatibility also enhances data communications between computers. Transmitting data or electronic mail is two of the major uses of our computer systems. They must be compatible to provide this service.

B.13 Objective --

To avoid duplication of data.

Recommendations --

- That to the extent that is practical, duplication of data entry of data be eliminated.
- 2. That the data processing steering committee annually review the data that is being captured by the department to eliminate duplication.

Discussion --

Data files of any organization should be considered just like any other asset. Considerable time and money is expended in acquiring the data, which is subsequently edited, corrected, stored, and processed. The final analysis shows that a significant investment is made in data. For this reason, it is not practical or economically feasible to have data captured and processed twice within any organization. If three divisions are capturing data, i.e. sportsmen data for special licensing and drawings, wildlife surveys, and fishing surveys, every effort should be made to reduce or eliminate three different divisions from capturing the same information or data.

. Inventory o Current D.P. Systems Hardware

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D. Inventory of Current DP Systems Software

Centralized Services Division Special Licensing Applications

LANGUAGE	DESCRIPTION
COBOL	Strip messages from error file
COBOL	Application balance and pre-edit
	Batch statistics report
	Post sportsman transactions
	Post drawing applications.
	Post dealer accounting transactions
	Post license transactions
COBOL	Extract from merged error files
COBOL	Error letter print
COBOL	Party hunting validation
COBOL	Combine duplicate sportsmen
COBOL	Post district transactions
COBOL	Selection of applications for drawings
COBOL	Random drawing
COBOL	Backup drawing records
COBOL	Extract for drawing reports
COBOL	Successfuls listing
COBOL	Post drawing results to database
COBOL	Print warrants
COBOL	Print licenses
COBOL	Reformat applications entry
COBOL ;	Print alpha list of errors
COBOL	Print mailing labels
COBOL	Print preference letters
COBOL	Extract for license print
COBOL	Print the district file
COBOL	District posting audit trail
COBOL	Reformat application errors
COBOL	Print statistics from drawing
COBOL	Year end maintenance
COBOL	Batch header update
COBOL	Error file key update
COBOL	Alpha history list
COBOL	Preference holder extract
COBOL	Application data base statistics
	Update dealer remittance records
	Survey tape modifications
	Damage hunt drawing
	On-line sportsman inquiry
	On-line district inquiry
	On-line application error correction
	On-line sportsman update
CICS	On-line name and address file maintenance
	COBOL COBOL

S0404513	COBOL	Print deer and elk permits
S0404514	COBOL	Print antelope license
S0404515	COBOL	Read QSAM choice record
S0404516	COBOL	Read QSAM district record
S0404517	COBOL	Print total drawing statistics for elk
S0404518	COBOL	Print total drawing statistics for moose, sheep, goat
S0404519	COBOL	Print total drawing statistics for antelope
S0404520	COBOL	Print total drawing statistics for deer
S0404522	COBOL	Print miscellaneous posting audit trail
S0404523	COBOL	Post miscellaneous preference transactions
S0404524	COBOL	Post application and species miscellaneous transactions
S0404525	COBOL	Post miscellaneous choice transactions
S0404526	COBOL	Post miscellaneous party transactions
S0404527	COBOL	Audit trail for load VSAM phase I
S0404534	COBOL	Revised label print with license definition
S0404540	COBOL	Submodule for pinting duplicates
S0404546	COBOL	Balance remittance transactions
S04045X5	COBOL	Unrestricted regional drawing
S04045X6	COBOL	Unrestricted unlimited drawing
S04045X7	COBOL	Read drawing backup
S04045X8	COBOL	Print posted audit trail
S04045X9	COBOL	Post drawing to data base
S04045Y1	COBOL	Read VSAM district file
S04045Y2	COBOL	Print district report
S04045Y3	COBOL	Format dsitrict record
S04045Y4	COBOL	Print quota posting audit trail
S04045Y5	COBOL	Edit quota posting transactions
S04045Y6	COBOL	Write district drawing record
S04045Y7	COBOL	Write choice drawing record
S04045Y8	COBOL	Write sportsman drawing record
S04045Y9	COBOL	Read and write party record
S04045Z1	COBOL	Control to select antelope for drawing
S04045ZZ	COBOL	Control to select deer for drawing
S04045Z3	COBOL	Control to select elk for drawing
S04045Z4	COBOL	Control to select moose, sheep and goat for drawing
S0404525	COBOL	Read drawing type for sportsman
S0404526	COBOL	Write tape for successful sportsman
S04045Z7	COBOL	Write tape for drawing statistics
S04045Z8	COBOL	Write tape for warrants for unsuccessfuls
S04045Z9	COBOL	Print warrant audit trail
S0404511	COBOL	Read/write errors in error file
S0404512	COBOL	Print moose, sheep and goat licenses
S04045U6	COBOL	Print party validation error list
S04045U7	COBOL	Read/write sportsman data
S04045U8	COBOL	Read/write district data
S04045U9	COBOL	Read/write choice data
S04045V2	COBOL	Print the individual drawing statistics
S04045V3	COBOL	Build the individual drawing statistics table
S04045V4	COBOL	Building the drawing choice table
S04045V5	COBOL	Drawing control for antelope
S04045V6	COBOL	Drawing control for Deer A
S04045V7	COBOL	Drawing control for Deer B
	· -	

00/0/5770	COROT	
S04045V8	COBOL	Drawing control for deer permit
S04045V9	COBOL	Drawing control for elk permit
S04045W1	COBOL	Drawing control for moose
S04045W2	COBOL	Drawing control for sheep
S04045W3	COBOL	Drawing control for goat
S04045W4	COBOL	Random number generator
S04045W5	COBOL	Restricted landowner drawing
S04045W6	COBOL	Unrestricted landowner drawing
S04045W7	COBOL	Restricted regular drawing
S04045W8	COBOL	Unrestricted regular drawing
S04045W9	COBOL	Restricted preference drawing
S04045X1	COBOL	Unrestricted preference drawing
S04045X2	COBOL	Restricted preference drawing
S04045X3	COBOL	Unrestricted no preference drawing
S04045X4	COBOL	Restricted regional drawing .
S04045R9	COBOL	Print extracted error printout
S04045S1	COBOL	Print batch error summary
S04045S2	COBOL	Add to batch error statistics table
S04045S5	COBOL	Print batch statistics report
S04045S6	COBOL	Add to batch statistics totals
S04045S8	COBOL	Add licenses for statistics
S04045S9	COBOL	Compare combining records for combine duplicates
S04045T1	COBOL	Combine duplicate records
S04045T2	COBOL	Print combine duplicates audit trail
S04045T3	COBOL	Build combining duplicate data base table
S04045T5	COBOL	Print conservation physical licenses
S04045T6	COBOL	Print combination physical licenses
S04045T7	COROT	Print request licenses lables
S04045T8	COBOL	Format license transaction for printing licenses
S04045T9	COBOL	Print letters for edit errors
S04405U1	COBOL	Print letters for errors that exclude the sportsman
S0440301 S04045U4	COBOL	-
S04045U5	**	Print an alphabetical list of errors
	COBOL	Print an alphabetical list of E status errors
S04045N9	COBOL	Print posting licenses audit trail
S04045P1	COBOL	Post combined application transactions
S04045P2	COBOL	Post individual application transactions
S04045P3	COBOL	Sequential QSAM read variable 348 byte record
S04045P4	COBOL	Print application posting audit trail
S04045Q1	COBOL	Print non-resident license applied for list
S04045Q2	COBOL	Print non-resident conservation license list
S04045Q7	COBOL	Build license cost table
S04045Q8	COBOL	Make adjustments to the statistics records
S04045Q9	COBOL	Edit for critical errors in the application
S04045R1	COBOL	Build the sportsman posting transaction
S04045R2	COBOL	Build combined application posting transaction
S04045R3	COBOL	Build dealer accounting posting transaction
S04045R4	COBOL	Build license posting transaction
S04045M2	COBOL	Print sportsman audit trail
S04045M3	COBOL	Print sportsman error list
S04045M4	COBOL	Post sportsman additions

S04045M5	COBOL	Post sportsman changes
S04045M6	COBOL	Build a conservation card transaction
S04045M7	COBOL	Read city - name file
S04045M8	COBOL	Build a warrant transaction
S04045M9	COBOL	Print district posting audit trail
S04045N1	COBOL	Post district additions
S04045N2	COBOL	Post district changes
S04045N4	COBOL	Print the dealer posting audit trail
S04045N5	COBOL	Post dealer accounting transactions
S04045N6	COBOL	Post sold license transactions
S04045N8	COBOL	Post returned license transactions

Culprit Modules

D04031FA	F04.CULPRIT	Alpha list of big game holders
D04031FP	F04.CULPRIT	Potential duplicate sportsman report
D04031FS	F04.CULPRIT	Alpha list of sportsmen
D04031FX	F04.CULPRIT	Landowner listing
D04031FX	F04.CULPRIT	Put out 10,000 records per tape for warrants
D04031G1	F04.CULPRIT	Replace sport-ID with sequence number for warrants
D04031FB	F04.CULPRIT	List of consignments
D04031M1-M5	F04.CULPRIT	Motor vehicle match project (potential residency violators
CULANTP	CF0466.TSOL1B	
CONS80-83	CF0466.TS0L1B	Consignments reports
REMS80-83	CF0466.TS0L1B	Remittance reports
CULDEAL	CF0466.TS0L1B	List dealer information
CULELKP	CRJE.L1B.FG05	Late elk districts report
CULEXFZ	CRJE.L1B.FG05	Warrant processing module
CULEXG1	CRJE.L1B.FG05	Warrant processing module
CULEXTL	CRJE.L1B.FG05	Extract successful applicants for labels
CULLAB50	CRJE.L1B.FG05	Label print
CULLAND-LAND1	CRJE.L1B.FG05	Landowner reports
CULLBL	CRJE.L1B.FG05	Print label from FM8 input
CULPARTY	CRJE.L1B.FG05	Party information report
CULSPEC	CRJE.L1B.FG05	Select species without choice attached
CULPLIST	CRJE.L1B.FG05	List party members and numbers
CULREMIT	CRJE.L1B.FG05	Dealer remittances by batch within dealer
CULRPT	CRJE.L1B.FG05	Report on unsuccessfuls in drawing
CULTOTAL	CRJE.L1B.FG05	Application totals by species (data base)
CULTOTER	CRJE.L1B.FG05	Application totals by species (error file)
CULHUNT3	CF0466.TS0L1B	→
CULTAPE I	CF0466.TS0L1B	Alpha warrant list
DLRCDS	CF0466.TS0L1B	Update dealer code file

Budget System

MC3296	COBOL	Updates detail file
MC3297	COBOL .	Creates project funding
MC3427	COBOL	Creates SBAS 213 Report
04CTL85001	COBOL	Creates Responsibility Center/Financial Report
CULPPP	CULPRIT	Creates revised position control master

Vehicle System

MC2432	COBOL	Edits vehicle detail file
MC2434	COBOL	Edits project detail and updates project master
MC2435	COBOL	Creates status report from project master
MC2436	COBOL	Edits class detail and updates class master
MC2437	COBOL	Edits vehicle detail and updates class master
MC2437	COBOL	Creates status report from vehicle master
MC2441	COBOL	Creates vehicle exception report
MC2445	COBOL	Creates wentile exception report Creates monthly vehicle stats report
MC2446	COBOL	Creates project number report, journal voucher form #271, journal voucher input tape
MC2482	COBOL	Changes fields in error on vehicle master
MC2622	COBOL	Creates report of closeout file-
MC2644	COBOL	Creates parks reimbursable vehicle list
MC2925	COBOL	Reinitializes vehicle master at year end
MC3161	COBOL	Creates total requests by region report
MC3266	COBOL	Creates vehicle expense report
MC3280	COBOL	Creates closeout stats reports by class
		Warehouse Inventory
MC2685	COBOL	Edits WIS input data
MC2686	COBOL	Updates WIS master
MC2687	COBOL	Creates inventory list from WIS master
MC2688	COBOL	Creates list of inventory exceptions
MC2689	COBOL	Edits project input data and updates project master
MC2690		
		Creates status report from project master
MC2691	COBOL	Creates project number report, journal voucher #271, SBAS journal voucher input tape
MC2731	COBOL	Creates WIS catalog in item number order
MC2740	COBOL	Updates detail master
MC2741	COBOL	Creates activity report and income/expense report
MC2742	COBOL	Creates list of issues to vehicles
MC2810	COBOL	Creates receivables list for warehouse use
MC2818	COBOL	Creates reimbursable list for parks division
MC2846	COBOL	Creates WIS catalog in location and item number order
	General Lic	censing Applications (Dealer Accounting)
L04045A1	COBOL	Build license data
L04045A2	COBOL	Post consignments
L04045A3	COBOL	Post remittances
L04045A4	COBOL	License transactions expansion
L04045A5	COBOL	Remittance batch balance and edit
L04045A6	COBOL	Strip remittance error file
L04045A6	COBOL	Post license transactions
L04045A8	COBOL	Corrections breakout
L04045A9	COBOL	Post sportman transactions
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L0404581	COBOL	Post dealer transactions
L04045B2	COBOL	Post miscellaneous transactions
L04045B5	COBOL	Dealer accounting reports
L04045B6	COBOL	- •
* · ·	CICS	Dealer remittance reports
FC04010		On-line remittance error corrections
FC01080	CICS	Create remittance entry transactions
FC03010	CICS	Name and address file maintenance
L04045N1	COBOL	Reformat remit entry transactions
L04045J4	COBOL	Dealer consignment projections
L040451X	COBOL	License sales summary
04SUB045A1	COBOL	Read 80 column card
04SUB045A2	COBOL	Build conservation licenses
04SUB045A3	COBOL	Build licenses
04SUB045A4	COBOL	Build vet non game license — — —
04SUB045A5	COBOL	Build license summary records
04SUB045A1	COBOL	Build species summary records
04SUB045A7	COBOL	Print audit report
04SUB045A8	COBOL	Read 80 column card
04SUB045A9	COBOL	Consign conservation licenses by range
04SUB045B1	COBOL	Consign conservation license by total
04SUB045B2	COBOL	Consign licenses by range
04SUB045B3	COBOL	Consign licenses by total
04SUB045B4	COBOL	Error report
04SUB045B5	COBOL	Audit report
04SUB045B6	COBOL	Consignment summary report
04SUB045B9	COBOL	Write random VSAM corrections
04SUB045C1	COBOL	Print audit report (RPT 3002)
04SUB045C2	COBOL '	Edit and post remittance accounting transactions
04SUB045C5	COBOL	Expand remittances
04SUB045C6	COBOL	Expand sold licenses
04SUB045C7	COBOL	Expand void licenses
04SUB045C8	COBOL	
the state of the s	COBOL	Expand returned license transactions
04SUB045C9	-	Print error list
04SUB045D5	COBOL	Build batch record
04SUB045D6	COBOL	Edit remittance control
04SUB045D8	COBOL	Edit sold licenses
04SUB045D9	COBOL	Edit void licenses
04SUB045E1	COBOL	Edit returned license transactions
04SUB045E2	COBOL	Print edit errors
04SUB045E3	COBOL	Print batch balance and edit summary
04SUB045E4	COBOL	Read sequential VSAM file
04SUB045E5	COBOL	Post sold licenses
04SUB045E6	COBOL	Post void licenses
04SUB045E7	COBOL	Post returned license transactions
04SUB045E8	COBOL	Print audit report (RPT 3022)
04SUB045F2	COBOL	Print error report (RPT 1030)
04SUB045F3	COBOL	Consolidate sportsman add transactions
04SUB045F4	COBOL	Consolidate sportsman correction transactions
04SUB045F5	COBOL	Consolidate dealer add transactions
04SUB045F6	COBOL	Consolidate dealer correction transactions
04SUB045F9	COBOL	Print audit trail (RPT 1031)
04SUB045G1	COBOL	Print error list (RPT 1032)
04SUB045G2	COBOL	Post transactions for sportsman add
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04SUB045G3	COBOL	Post transactions for sportsman corrections
04SUB045G4	COBOL	Build residents plastic card record
04SUB045G6	COBOL	Print audit report (RPT 1033)
04SUB045G7	COBOL	Print error report (RPT 1034)
		Post transactions for dealer addition
04SUB045G8	COBOL	
04SUB045G9	COBOL	Post transactions for dealer corrections
04SUB045H1	COBOL	Print audit report (RPT 1035)
04SUB045H2	COBOL	Print error report (RPT 1036)
04SUB045H3	COBOL	Post license element corrections
04SUB045H4	COBOL	Post set relationship disconnects
04SUB045H6	COBOL	Delete a consignment
04SUB045H7	COBOL	Build a plastic card record
04SUB045H8	COBOL	Post corrections to license summary records
04SUB045H9	COBOL	Consign VTLIC licenses by range
04SUB045I1	COBOL	Consign VTLIC licenses by total
04SUB045I2	COBOL	Build city name table from input file
04SUB045I3	COBOL	Print license agents report (RPT 1042)
04SUB04514	COBOL	Print license sales report (RPT 1043)
04SUB045I5	COBOL	Print license activity (RPT 1044)
04SUB04516	COBOL	Print agents accounts trial balance (RPT 1045)
04SUB045I7	COBOL	Print license control report (RPT 3000)
04SUB04518	COBOL	Post maintenance remit transactions
04SUB04519	COBOL	Writes warrant for sportsman deletion
04SUB045J1	COBOL	Build a plastic card record for license type 09 holders
TOCHOUNDER	CODOL	Build a plastic taid record for freehat type of horders
		Enforcement Division Hunter Safety
V01007	20007 11	711. VOO 1 1 .
MC1887	COBOL	Edits HSC input data
MC1888	COBOL	Updates HSC master file
MC1889	COBOL	Lists HSC master file
		Violators System
MC2064	COBOL	Edit and balance of input data
MC2065	COBOL	Master file update
MC2066		
MC2836	COBOL	Creates monthly reports
1102030	COPOL	Creates annual summary of violations
	•	Wildlife Division
MC2173	COBOL	Edits EL data
MC2174	COBOL	Updates file
MC2176	COBOL	Edits HL data
MC0765	COBOL	Adds SL data
MC1067	COBOL	Adds HL data
MC3100	COBOL	Draws samples
MC2481	COBOL	Edit license data
MC0764	COBOL	Prints label
MC3292	COBOL	Edit SL data
MC0965	COBOL	Edit SL data
MC0332	COBOL	Update SL file
	COBOL	Counts SL data
MC0807		

MC0868	COBOL	Calculates param.
MF0905	COBOL	Random number generator
MC3181	COBOL	Edit fur data
MC2367	COBOL	Lists license
MC3182	COBOL	Counts by region
MC2363	COBOL	Samples fur license
MC2364	COBOL	Counts respond
MC0756	COBOL	Edit fur data
MC0906	COBOL	Estimate fur harvest
MC0909	COBOL	Calculate cal. catch
MC2191	COBOL	Sample ARCH license
MC2194	COBOL	Counts respond
MC2190	COBOL	Edits harvest data
MC0053	COBOL	Estimates harvest
MC0770	COBOL	Sample D & E license
MC0771	COBOL	Sample deer B license
MC2207	COBOL	Sample deer permit license
MC0772	COBOL	Sample elk permit license
MC0773	COBOL	Samples B-7 license
MC0775	COBOL	Counts respond
MC1027	COBOL	Edits harvest data
MC0787	COBOL	Edits harvest data
MC0797	COBOL	Estimate deer harvest
MC0798		Estimate elk harvest
	COBOL	
MC0799	COBOL	Tabulates periods of harvest
MC0808	COBOL	Samples moose, sheep, goat
MC2480	COBOL	Samples antelope license
MC0811	COBOL	Counts respond
MC0117	COBOL ,	Edits harvest data
MC0118	COBOL	Estimate harvest
MC1530	COBOL	Samples bear license
MC1533	COBOL	Counts bear respond
MC0852	COBOL	Edits bear harvest data
MC3232	COBOL	Edits bear harvest data
MC0853	COBOL	Estimate bear harvest
MC1535	COBOL	Tabulates bear harvest
MC0802	COBOL	Samples game bird license
MC0803	COBOL	Samples turkey license
MC0805	COBOL	Counts respond
MC0911	COBOL	Edits turkey harvest data
MC0912	COBOL	Estimate turkey harvest
MC0934	COBOL	Edit waterfowl data
MC0862	COBOL	Estimate waterfowl harvest
MC1604	COBOL	Tabulate waterfowl bag sizes
MC3146	COBOL	Lists upland game bird data
MC1605	COBOL	Edits game bird data
MC0528	COBOL	Estimates upland game bird harvest
Streamrating	FORTRAN	Rates streams of Montana
CreelCenSUs	FORTRAN	Creel census summary
Stream Format	FORTRAN	Prints English printout of stream data base
Agemat	FORTRAN	Summarizes fish age data
Monask	FORTRAN	Summarizes fish age data
FIRE 1	FORTRAN	Summarizes fish age data
•		•

Stregg	FORTRAN	Summarizes fish age data
Agemat 2	FORTRAN	Summarizes fish age data
DBMS	N/A	Data base management system
Wordstar	N/A	Word processing software
Datastar	N/A	Data input software
Supercalc	N/A	Spread sheet calculator
FSID	N/A	Debugger
Spellstar	N/A	Spell dictionary
Mailmerge	N/A	Merge mailing list for labels
COMMX	N/A	Data communications
FORTRAN	N/A	Languages
COBOL	N/A	Languages
PL1	N/A	Languages
Basic 80	N/A	Languages
MBASIC	N/A	Languages

Fisheries Division

Geoscan	FORTRAN	Calculate 3rd areas
POSIM	FORTRAN	Pop. modeling
TELDAY	FORTRAN	Calculate 2nd area
SAGIS	FORTRAN	Wildlife data base calculation
ORDIFLEY	FORTRAN	Special division calculation
DECORANA	FORTRAN	Special division calculation
CEP1PROG	FORTRAN	Special division calculation
CP8APROG	FORTRAN	Species division programs
CP8BPROG	FORTRAN	Species division programs
CP12PROG	FORTRAN.	Species division programs
GFITSUBR	FORTRAN	Species division programs
C21APROG	FORTRAN	Species division programs
C21BPROG	FORTRAN	Species division programs
C21CPROG	FORTRAN	Species division programs
C21DPROG	FORTRAN	Species division programs
OP30PROG	FORTRAN	Species division programs
CP31PROG	FORTRAN	Species division programs
CP41PROG	FORTRAN	Species division programs
EDIT 1	FORTRAN	Species division programs
EDIT 2	FORTRAN	Species division programs
EDIT 3	FORTRAN	Species division programs
PRE	COBOL	Pre processor for history file
POST	COBOL	Post processor for history file
STANDARD	FORTRAN	Standardize data
RETURN	FORTRAN	Tag return program
RAMSHORN	FORTRAN	Compiles ram measure
INTERJOB .	FORTRAN	Calculate interspec of veg. data
DENJOB	FORTRAN	Density measure for trees
CATJOB	FORTRAN	Calcuate cattle big game areas
LTEDIT	FORTRAN	Edits transect data

Centralized Serivces Licensing Data Base

NAME	RESIDENCE	CONFIDENTIALITY	DESCRIPTION
CAT00.F04.D045.FG1	DISK	YES	Error Recycle file
04T045.EG2	TAPE	NO	Key application records
-04.T045.FG2	TAPE	YES	Sorted keyed application records
F04.T045.FG3	TAPE	NO	Stripped recycle file
	TAPE	NO	Sort merged balance entry file
AT00.F04.D045.FG5	DISK	YES	Batch history file
F04.D045.FG5	TAPE	NO	Backup of history file
F04.D045.FG6	DISK	YES	Balance and edit critical error file
04.D045.FG7	DISK	NO	Sportsman entry transactions
2 04.D045.FG8	DISK	YES	Application entry transactions
F04.D045.FG9	DISK	NO	Dealer accounting transactions
04.D045.FH1	DISK	NO	License posting transactions
04.T045.RH2	TAPE	NO	Batch statistics report
F04.D045.FH3	DISK	NO	Sorted sportsman entry transactions
~94.T045.FG4	TAPE	NO	Conservation card tape
04.T045.FH5	TAPE	YES	Warrant tape
F04.T045.RH6	TAPE	NO	Sportsman audit trail
F04.T045.RH7	TAPE	NO	Sportsman error listing
04.City.Names	DISK	NO	City names file for Montana
04.D045.BH8	DISK	NO	Sportsman backup file
F04.D045.FH9	DISK	YES	Sorted application entry transactions
D045.FI1	DISK	NO	Edit error file
74.T045.RI2	TAPE	NO	Application posting audit trail
F04.T045.RI3	TAPE	NO	Licenses applied for list
F04.D045.F14	DISK	NO	Sorted dealer transactions
94.D045.BI5	DISK	NO	Dealer transaction backup
F04.T045.EL6	TAPE	NO	Duplicate records combination transactions
F04.T045.FL7	TAPE	NO	Sorted combination transactions
)4.T045.RL8	TAPE	NO	Combine duplicates report
T00.F04.D045.FL9	DISK	YES	District VSAM file for drawing
F04.T045.BL9	TAPE	YES	Backup for district
71T00.F04.D045.FM1	DISK	NO	Choice VSAM file for drawing
)4.T045.BM1	TAPE	NO	Backup for choice
CAT00.F04.D045.FM2	DISK	YES	Sportsman VSAM file for drawing
F04.T045.BM2	TAPE	YES	Backup for sportsman
14.T045.RM3	TAPE	NO	Quota listing for drawing
F04.C045.EM4	DISK	NO	Quota change transactions file
F04.T045.RM5	TAPE	NO	Audit trail for posting quota changes
1 14.T045.RM6	TAPE	NO	Individual drawing statistics
4.T045.BM7	TAPE	NO	Backup drawing statistics tape
F04.T045.FM7	TAPE	NO	Statistics file sorted
F04.T045.FM8	TAPE	YES	Successful sportsman file
14.D045.FM9	DISK	YES	Sorted successfuls file
F04.T045.RN1	TAPE	NO	Printed list of successfuls
F04.T045.RN2	TAPE	NO	After drawing species statistics

F04.T045.FN3	TAPE	NO	License from drawing to print file
6 '04.D045.FN4	DISK	NO	Sorted licenses to print file
.T045.RN5	TAPE	NO	Moose, sheep, goat license printed file
.T045.RN6	TAPE	NO	Deer and elk permits printed
F04.T045.RN7	TAPE	NO	Antelope license printed
04.T045.RN8	TAPE	NO	Data base drawings posted audit trail
T 04.T045.FN9	TAPE	YES	Warrant tape
F04.T045.FP2	TAPE	NO	Alpha letters in error file order
04.T045.FP3	TAPE	NO	Alpha letters in alpha order
■04.D045.FP4	DISK	NO	Reformat of application errors
F04.T045.RP5	TAPE	NO	Exclusion latters
704.T045.FP6	TAPE	NO	Sportsman extract for drawing
_04.T045.FP7	TAPE	NO	Unsorted choice_file_for_drawing-
F04.T045.FP8	TAPE	N	Alpha name sorted-drawing data for data
	•	• .	base sort
AT00.F04.D045.FP9	DISK	NO	Party work file
T 04.T045.RQ1	TAPE	NO	Audit trail for warrants
F04.T045.RQ2	TAPE	МО	Warrant list of non receiving E status
04.T045.FQ3	TAPE	NO	Sorts reformatted apps for VSAM load
04.T045.FS5	TAPE	NO	Audit trail file for on line file change
F04.D045.FR1	DISK	NO	Batch expand error file
T04.D045.FR2	DISK	МО	Batch breakout entry file
_04.D045.FR3	DISK	NO	Dealer accounting error file
F04.D045.FR4	DISK	NO	License posting entry file
F04.D045.FR5	DISK	YES	On-line VSAM error file
04.D045.FR6	DISK .	NO	Batch breakout error file
04.D045.FR7	DISK	YES	Dealer accounting error file
F04.D045.FR8	DISK	NO	License posting error file
.D045.FR9	DISK	NO	Batch statistics error file
04.D045.FS5	DISK	NO	Audit trail for FG08
F04.D045.FS6	DISK	YES	Preference extract file
F04.D045.RS7	DISK	YES	Microfiche of sportsmen history
AT00.F04.D045.FS9	DISK	NO	Audit trail for FG07
CAT00.F04.D045.F80	DISK	NO	On-line remittance entry file
CAT00.F04.D045.FS1	DISK	YES	On-line name and address file
AT00.F04.D045.FS2	DISK	YES	Label extract file
04.C045.EA1	CARD	NO	Card entry for building data base
F04.T045.RA2	TAPE	NO	Build data base audit report
704.C045.EA3	CARD	NO	Card entry for consignments
04.T045.RA4	TAPE	NO -	Error report for consignments
F04.T045.RA5	TAPE	NO	Audit report for consignments
F04.T045.RA6	TAPE	NO	Summary report for consignments
04.T045.EA7 F04.T045.EA8	TAPE	NO	Scanned license data transactions
	TAPE	NO	Keyed license data transactions
F04.T045.EA9 34.T045.RB1	TAPE	NO	Reformatted license data transactions
04.1045.RB1	TAPE	NO	Batch expand audit report
F04.T045.FB3	TAPE	NO NO	Stripped batch balance and edit corrections
CUI. CFUI.FUI	TAPE	NO.	Sorted, mergéd license data for batch, balance and edit
04.T045.FB4	TAPE	NO	License transactions file
F04.T045.FB5	TAPE	NO NO	Dealer transactions file
F04.T045.FB7	TAPE	NO NO	
\$	iurr	140	Errors to be put in on-line correction file

	•		
F04.T045.RB8	TAPE	NO	Print of errors put in on-line correction fil
F04.T045.RB9	TAPE	NO	Print of summary of batch balance and edit
04.D045.FC1	DISK	NO	VSAM edit error correction file
.T045.RC2	TAPE	NO	Audit trail for on-line corrections
F04.T045.BC3	TAPE	NO	License posting backup of transactions
04.T045.RC4	TAPE	NO	License posting audit trail
04.T045.BC5	TAPE	NO	Dealer posting backup of transactions
F04.T045.RC6	TAPE	NO	Dealer posting backup of transactions
F04.T045.EC7	TAPE	NO	Entry transactions for correction process
04.T045.FC8	TAPE	NO	Sorted transactions for correction process
T04.T045.FC9	TAPE	NO	Sportsman correction transactions
F04.T045.FD1	TAPE	NO	Dealer correction transactions
· ·	· · · · · · · · · · · · · · · · · · ·		
04.T045.FD2	TAPE	NO	Miscellaneous correction transactions
04.T045.RD3	TAPE	NO	Error report- for transaction-breakout
F04.T045.FD4	TAPE	NO	Sorted sportsman correction transactions
04.T045.FD5	TAPE	NO	Sorted dealer correction
04.T045.FD6	TAPE	NO	Sorted miscellaneous corrections
F04.T045.FD7	TAPE	NO	Conservation card data transactions
F04.T045.FD8	TAPE	NO	Sportsman backup transactions
04.T045.RD9	TAPE	NO	Sportsman audit trail
T04.T045.RE1	TAPE	МО	Error list for sportsman corrections
F04.T045.BE2	TAPE	NO	Dealer backup transaction
94.T045.RE3	TAPE	NO	Dealer correction audit report
34.T045.RE4	TAPE	NO	Error list for dealer correction
F04.T045.BE5	TAPE	NO	Backup of miscellaneous transactions
~94.T045.RE6	TAPE	NO	Audit report for miscellaneous corrections
		HUNTER S	SAFETY
E510.C01	DISK	NO	Hunter safety certification input data
-04.T410.M15	TAPE	NO	Accepted HSC input data
F04.T410.M30	TAPE	YES	HSC master file
<u> </u>	ATHE III	1100	noo magaca aara
		BUDGET S	SYSTEM
F04.T850.D01	TAPE	NO	Detail containing all budget requests
)4.T850.M01	TAPE	NO	Master containing all budget information
F01.E710.D02	TAPE	NO	Revised position control master
101.11.10.002	INIL	NO	Revised position control master
		VEHICLE S	SYSTEM
70/ 7000 75			
F04.E002.D01	DISK	NO	Vehicle detail input data
)4.T002.D01	TAPE	NO	Accepted detail file
4.T002.M01	TAPE	NO	Vehicle master file
F04.D002.M01	DISK	NO	Vehicle classification master
F94.C002.D01	DISK	NO	Vehicle class master input data
)4.E002.D02	DISK	NO	Project detail input data
F04.T002.M02	TAPE	NO	Project master (SBAS Interface)
F04.T002.M03	TAPE	МО	Vehicle closeout data
14.E002.D03	DISK	NO	Vehicle master updates
4.T002.D03	TAPE	NO	Journal voucher detail
F04.E002.D04	DISK	NO	Income/expense detail request vehicle
			closeout data file
			CLOSCOGO GOCG IIIC

VIOLATORS SYSTEM

?04.D302.D10	DISK	NO	Judge validity file
4.D302.D11	DISK	NO	Warden validity file
4.D302.D12	DISK	NO	Violation code validity file
F04.D302.C01	DISK	NO	Detail file input data
704.D302.D01	DISK	NO	Detail file
T04.T302.D02	TAPE	NO	Detail file sorted by detail type
F04.T302.M01	TAPE	YES	NTA master file
704.T302.M02	TAPE	YES	Courtesy citations master
₩704.T302.R01	TAPE	NO	Report file
F04.T302.R02	TAPE	NO	Sorted report file
		WAREHOUSE -	INVENTORY
	4		
F04.E035.D01	DISK	NO	Warehouse inventory input data
04.E035.D02	DISK	NO	Project master input data
₩04.D035.D02	DISK	NO	Edited WIS data
F04.T035.D03	TAPE	NO	Warehouse detail (input to SBAS)
'04.T035.M01	TAPE	NO	WIS master
-04.T035.M02	TAPE	NO	Project master (SBAS interface)
F04.T035.M03	TAPE	NO	Detail master
		PICUPDIFC	DIVISION
		LIDUEVIES	DIVISION
HISTORY	DISK	NO	Used for stream history file reach retrieval
[ISTORYREACH	DISK	NO	Used for stream history file reach retrieval
GEDATA	DISK	NO	Only reformatted for IDP for summary of fish
- OLDAIA	DIBK	NO	age data
LSURVEY	DISK	PARTIAL	Mail survey pressure
AKE ELEVATION	DISK	NO	Flathead lake elevation
LAKE TEMP	DISK	NO	Flathead lake temperature
CCDATA	DISK	NO	Creel census data
		WILDLIFE	DIVISION
ONSERV.	TAPE	PARTIAL	Conservation license for drawing system
EOSAN DATA	DISK	NO	For analyze data 3-d relationships
TELDATA	DISK	NO	Analzing telemetry data
OUTEDATA	DISK	NO NO	Analyze elk use
TATE FORESTRY	DISK	NO	State forest inventory data
HUNTGDATA	TAPE	PARTIAL	Harvest surveys
SPECLICOTA	TAPE	PARTIAL	Harvest surveys
ING CAOOPERATORS	DISK	PARTIAL	Wing survey
	~ 20M	***************************************	

Inventory of D.P. personnel*

Division	Classification	Position	Total FTE's	Total Cost (wages)	Function**
Ecological Service	Biologist	4	0.20	\$4,500.00	1,3
Ecological Service	Water Resource	1	0.15	3,500.00	1,3
Fisheries	Secretarial	7	1.75	18,000.00	2
Fisheries	Biologist	7	1.85	38,000.00	1,3,4
Fisheries	Comp. Program	1	1.00	20,800.00	1,3,4
Wildlife	Biologist	21	2.20	45,800.00	1,3
Wildlife	Secretarial	2	0.3	3,100.00	5
Centralized Services	Programmer	. 2	2.0	60,000.00	4
Centralized Services	Supervisor	. 1	0.25	9,600.00	6
Centralized Services	Word Processin	g 2	1.0	18,000.00	5
Centralized Services	Clerks	10	2.5	35,000.00	1,2
	•		13.2	\$256,300.00	

**Key to functions:

- 1. data correction, manipulation
- 2. keying data
- 3. Junning application programs
- 4. programming
- 5. word processing
- 6. supervising

^{*} Determination of personnel involved with data processing was made by the following criteria: a) operational experience with a CRT or data entry device, b) software development and maintenace

G. Current Data Processing Expenditures (FY'82)

1. Software purchases and maintenance

Bozeman Research Center \$8,450

Kalispell Regional Office 2,660

\$11,110

2. Hardware Purchases and Maintenance

Bozeman Research Center \$42,110

Kalispell Regional Office 23,494

Centralized Services 10,912

\$76,516

3. Computer Processing

MSU \$19,785

Dept. of Admin., CSD 235,863

\$255,648

4. Personnel Expenditures

Ecological Division	\$8,000	
Fisheries Division	76,800	
Wildlife Division	48,900	
Centralized Services	122,600	
Division		\$256,300

5. Contracted Services (Software)

Fisheries Division \$21,000

Wildlife Division 48,500

Centralized Services 2,257

Divison \$71,757

TOTAL

The following tables indicate some basic operations that all seven regions would like to computerize. All numbers are averages and may vary from region to region.

A description of each task by division is as follows:

ADMINISTRATION

1)License sales.

Two regions (Miles City and Billings) need a method of rapidly issuing hunting and fishing licenses. Miles City sold over \$100,000.00 worth of licenses this past year. They need a system to enable them to type the name and/or conservation license number of the sportsman on a CRT and then transfer this to a printer which holds the copies of the appropriate license. The amount of the license would be tallied for bookkeeping purposes. This would reduce staff and sportsmen's time when purchasing a license. The license issued would already be keyed thus reducing the amount of keying required at the end of the season for the fishing and harvest surveys.

2) Vehicle and mileage schedules.

By keying all records associated with the vehicles in a region, preventive maintenance could be preformed on a regular basis. A running tally of mileages associated with each project could be kept current. Vehicle running costs could be reduced by keeping track of needed repairs and regular maintenance. All keying and data storage would be done at the region level. This would be transferred to Helena to prevent duplicate keying.

3) Word processing.

The major use of the micro processors in each region would be for word processing. All regions estimated that 2 to 3 man months of secretarial time was spent on the typing of second and third drafts of reports and correspondence.

All manuscripts or articles for magazines could be photoset directly from the word processor, reducing time and thus costs by ninty percent.

The word processor would be used for all form letters that are now individually typed. Some examples are the fish tag return letters and cover letters for requested material.

Legals for hunting districts and late season hunts could be stored so these would not have to be retyped and proofed each year.

Dingell-Johnson (DJ) and Pitman-Robinson (PR) reports would be stored so these would not have to be entirely retyped year after year.

Fifty to sixty percent of the regional use would be involved with the word processor.

DIVISION:ADM	DIVISION:ADMINISTRATION TASK REG1 REG2 REG3 REG4 REG5 REG6 REG7													
TASK LICENSE SALES	I RI IREG	EG1 CEN	I REG	CEN	i Ri IREG	G3 CEN	I KI IREG I	CEN	REG	CEN	REG	G6 CEN	REG	G7 CEN
DATA ENTRY									a				Ø	
INITIAL (HOURS)									Ø				ש	
ANN.UPDATE (HOURS)									4Ø	نه			4Ø	
										-		·	- 2	İ
DATA STORAGE												·		
INITIAL (BYTES) (K)									200				200	
ANN. UPDATE (BYTES) (K)									100				100	
DATA ANALYS														
INITIAL (CORE IN K)									35				35	
FIVE YEAR (CORE IN K)									35				35	
FREQUENCY	DAII	Υ -					 !							
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				. **										

DIVISION:ADMI	NIST	RAT I	ON											
TASK VEHICLE MAINTENANCE	R	-61	R	G2 CEN	REG	G3 CEN	REG	G4 CEN	REG	G5 CEN	REG	G6 CEN	REG	G7 CEN
INITIAL (HOURS)	Ø		Ø		Ø		Ø		Ø		Ø		Ø	
ANN.UPDATE (HOURS)	2Ø		2Ø		2Ø		2Ø		2Ø	ba _s	2Ø		2Ø	
DATA STORAGE INITIAL (BYTES) (K) ANN.UPDATE (BYTES) (K)	50 25	-	5Ø 25		5Ø 25		5Ø 25		5Ø 25		5Ø 25		5Ø 25	
ATA ANALYS INITIAL (CORE IN K)	2Ø	,	2Ø		2Ø		20		20		20		2Ø	
FIVE YEAR (CORE IN K) FREQUENCY	2Ø MON ⁻	THLY	2Ø		2Ø		2Ø		20		2Ø		2Ø	

DIVISION:ADMI	NIST	RATI	ON											
TASK WORD	l RE IRFG	G1 CEN	I REG	EG2 CEN	l RE	EG3 CEN	l RE IRFG	G4 CFN	l RE IRFG	G5 CFN	l RE IRFG	G6 CFN	RE	G7 I CENI
PROCESSING			1124							OLI (
DATA ENTRY					~		<i>a</i>		a		α		a	
INITIAL (HOURS)	Ø		Ø		Ø		Ø		Ø		Ø		Ø	
ANN.UPDATE (Hours)	7ØØ		5ØØ		200		5ØØ		5ØØ	hay.	200		5ØØ	
	-									-				
DATA STORAGE						·						-		
INITIAL (BYTES) (穴)	Ø	·	Ø		Ø		Ø		Ø		Ø		Ø	
ANN. UPDATE (BYTES) (M)	6		4		1.5		4		4		1.5		4	
DATA ANALYS			71											
INITIAL (CORE IN K)	25	,	25		25		25		25		25		25	
FIVE YEAR (core in K)	3Ø		3Ø		3Ø		3Ø		30		3Ø		3Ø	
FREQUENCY	DAI	Υ -												
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ENFORCEMENT

1)Outfitters and trappers.

A current list of outfitters and trappers would be retained. If need arose it could be determined readily if a given party was a valid trapper or outfitter. Mass correspondence could easily be handled once all names were stored through a word processing system. All keying and data storage would be done centrally and transferred to the regions.

2) Hunters safety.

All participants that had successfully completed a hunters safety course would be recorded. Then, when a juvenile applied for a hunting license, the applicant could be checked for certification. All instructors names and addresses would be held for any correspondence that was required. All data would be keyed and kept centrally. A copy of all data would be sent to the regions.

3) Notice to appear.

All notices to appear would be keyed and kept at the regional offices. These would then be readily accessible instead of searching by hand. They could be sorted in various manners to better enable record keeping.

DIVISION:ENFO	RCEM	<u>IENT</u>			 									
TASK OUTFITTERS & TRAPPERS	I REG	EG1 CEN	REG	:G2 CEN 	REG	CEN	REG	G4 CEN	REG	CEN	REG	CEN	REG	G/ CENI
DATA ENTRY INITIAL (HOURS)	1Ø		1Ø	· .	1Ø		1Ø	į	1Ø		1Ø		1Ø	
ANN.UPDATE (HOURS)	5		5		5		5		5	h/g.	5		5	
DATA STORAGE						•				-				
INITIAL (BYTES) (K)	20		2Ø		20		20		20		20		2Ø	
ANN.UPDATE (BYTES) (K)	10		1Ø		1Ø	-	1Ø		1Ø		10		1Ø	
DATA ANALYS	,		:,	,				·						
INITIAL (CORE IN K)	2Ø		20	,	20		20	s someth	2Ø		2Ø		2Ø	
FIVE YEAR (core in K)	20		2Ø		2Ø		20		2Ø		20		2Ø	
FREQUENCY	DAI	_Y -												
														<u> </u>

DIVISION:ENFORCEMENT TASK REG1 REG2 REG3 REG4 REG5 REG6 REG HUNTER'S REG CEN REG CEN REG CEN REG CEN REG SAFETY DATA ENTRY 20 20 20 20 20 20 20 20 20 20 20 20 20 2	37 CEN
20 20 20 20 20 20 20 20	i
(HOURS)	
ANN. UPDATE 5 5 5 5 5 5 5	
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1) Fishing regulations.

The fishing regulations will be put that the computer of individual water. This will enable a sportsman, secretary or biologist to query a data file for the particular regulations on an individual water. Each region will have its regulations while a central site will have all the regulations for the entire state. All keying will be done at a central location to enable editing to occur. This provides a better service to department employees as well as sportsmen.

2) Thermographs.

Thermographs now record water temperatures on a circular disk. These disks are then digitized and a temperature for every half hour is recorded. This data is then summarized. The raw temperature data will be stored at a central location, while the summarized data will be sent to each region for storage on their system. This data can then be manipulated, analyzed, regressed or sorted as each region prefers. This provides more complete analysis of existing

3) WETP.

data.

The wetted perimeter (WETP) program calculates statistics on a stream channel. Data is input and maintained at the regional level. The program to calculate the wetted perimeter is now on CP6 and will be converted to run on all micro processors. Run and storage costs will be in house rather than outside. Approximately \$100 per region could be saved.

4) Netting data.

A standardized form for both river and lake gill netting is under development. A computer program to analyze netting data is in the planning stages. These will both be built to be used on the regional micro computers. Data input will initially be from both a central and regional local due to the volume. Each succeeding year's data will be input at the regional level. It will be up to each region to store and update their data. This will allow more complete analyzation of data and make comparison between years and/or waters possible.

5) Stream flow data.

Flow/discharge measurements will be obtained from U.S.G.S. and sorted by region. Each region will have its water flows to use in regression or correlation analysis. Stream flow data will allow the biologist to better determine the habitat versus fishery relationships for each water.

6) Creel census data.

Presently all creel census data and programs are keyed and/or stored in Bozeman. This results in several runs of the program to obtain the needed results. The creel census

program will be adapted to the micro processors and distributed to the regions. Each region will be responsible for their data and data analysis. Technical and statistical direction will still be available. Since some creel census will require large amounts of keying, the majority of the keypunching will be done at a central location. This will free the time of the person presently involved with creel census and will allow more readily analyzation of data. The program could be run whenever new data is received to determine if a change is needed in the middle of a census instead of waiting till it is all over and too late to recuperate.

- 7) Stream and lake database. The stream and lake database is now and will continue to be kept in Helena. The English format and data base programs are shared between Bozeman and Helena. Each region's summarized data will be sent to them for their own query purposes. This will expedite sportsman's questions on a particular lake or stream. New input data will be made at the regional level and will be editted at this point. This data will be transferred to Helena for updating of the master file. Periodically a new summarized listing will be sent to the regions. Timing will be on a region by region basis.
- 8) Mark-recapture.
 The Mark-recapture system will remain in Helena. All keying, editing and review will be kept. Summary or final reports will now be sent to the regions so as to enable the biologists to query the data with the aid of a micro processor. This will enhance the biologist ability to determine cause-effect relationships between the habitat and the present fishery. The "raw data" will be stored centrally while the calculated data will be stored at the regional level.
- 9) Fisherman log.
 The fisheries division presently maintains a pool of interested fishermen to keep a log of all their fishing activities. This data is used for trend analysis. The present system won't be altered. The results will be provided to the regions in a format suitable for the micro computer. This will enable long term trend analysis on various waters as need arises. It is also an indicator of fish present in certain waters where no shocking or netting data is available.
- 10) Hatcheries.
 The hatcheries are in the process of computerizing their monthly records. With a small micro computer at each hatchery they would be able to determine the cost of rearing a raceway or lot of fish to a certain size. Thus management decisions can have the cost associated with their decisions to better enable the department to more wisely utilize the

fish planting program. The micro computers can also be used to determine amounts of feed, condition factors, and various other hatchery calculations. A computer would cut the time required to determine these factors by 90%. All keying would initially be done at a central location. This may be moved to the hatcheries as micro computers are purchased for a given hatchery. The existing programs would be modified to run on the micro processors. Data storage would be maintained at a central location with each hatchery also keeping their own records.

11) 310 Inventory.
Only two regions felt the need to maintain a file of 310 permits and/or violations. They would also keep track of what action had been taken. All keying and data storage would be at the regional level.

DIVISION: FIS	SHER	IES			·									
TASK FISHING REGULATIONS	REG	G1 CEN	REG	G2 CEN	REG	G3 CEN	REG	EG4 CENI	REG	EG5 CEN	REG		REG	
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TASK FISHERMAN LOG	REG	G1 CEN	REG	G2 CEN	REG	EG3 CEN	REG	G4 CEN	REG	G5 CENI	REG	G6 CEN	REG	G7 CEN	
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1) Traffic counter data.

Traffic counters are placed on several of the Departments parks, fishing access sites and recreation areas. This data would be entered onto the micro processor. This would enable the parks manager to compare several years of data as well as keeping running tabs on the current years results.

2) Maintenance schedules.

This would be similar to the administration maintenance schedules, but since the parks division has various special vehicles they need a separate system. The keying and data would be kept at the regional level. The benefits would be the same as those under the administration division.

3) Fee collections.

Some recreation areas require a fee for staying overnight. These collections along with the number of vistors would be kept on the micro processor. Running tallys as well as comparisons could be easily made. This system would greatly enhance the ability to determine priorities for improvements. All keying and data storage would be at the regional level. This information would be sent to a central location for statewide totals.

4) Lands inventory.

Tax liabilities, in lieu of tax payments, lease payment transactions, a facility inventory, annual visitation, parcel size, legal description, and other management information would be computerized for more efficient storage, retrieval and analysis.

DIVISION:PARK	⟨S	1												et ur jait.
TASK TRAFFIC	l RF	G1 CEN	REG	G2 CEN	REG REG	G3 CEN	REG REG	G4 CEN	REG	EG5 CEN	I REG	EG6 CEN	REG REG	G7 CEN
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TASK FEE COLLECTION	l R	G1 CEN	REG	G2 CEN	REG	G3 CEN	REG	G4 CEN	REG	G5 CEN	REG	G6 CEN	REG	G7 CEN
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1) Checking station data.

Game management personnel operate two to five game checking stations per administrative region each year. Data collected includes date, age, sex and location of kill for each species checked. Other data may include field dressed weights, diastema measurements, antler lengths and days afield.

Data entry, storage and analysis will occur at the region of origination since the size of these tasks will be relatively small. Data entry and verification will be accomplished most efficiently either directly by the data collector or under his immediate supervision. Standard data entry and analysis programs will be developed in Bozeman by Department programmers or by programmers under contract to be used in all regions.

2) Wildlife classifications.

Each year wildlife biologists make counts and age/sex classifications of most big and small game species occurring in each region. This information provides the biological base upon which game management programs are established. This data would be analysed in conjunction with ongoing vegetation and wildlife distribution and population studies occurring statewide.

The data entry, storage, and analysis for the classification information would be most efficiently accomplished at the regional level. As with the checking station data, standard computer programs will be developed and used by all regions. Pooling of the regional data for statewide analysis would be accomplished centrally at the research office in Bozeman.

3) Vegetation inventories.

Utilization and Daubenmire vegetation transects are conducted annually on several hundred sites in each region. This information is used to determine trends in condition of the various habitats upon which wildlife species depend. This phase would be imput and analysed at the regional level.

Habitat mapping on regional and statewide levels will be input and analysed centrally at Bozeman.

4) Wildlife distribution.

Over the next five years the Department plans to digitize the seasonal wildlife distributions of all major game species in the state. The initial input will be done by work-study personnel. The annual updates and revisions will be made by regional biologists. Due to the massive amounts of data storage required, the specialized input hardware and the size and complexity of the analysis programs, all phases of this task will be done in Bozeman. However, some of the output data summaries may be combined with other data analysis at the region.

- 5) Wing survey.
 Each year wing envelopes are sent to approximately 5000 cooperating sportsmen throughout Montana to obtain a sample of wings from game birds harvested in the state. This activity is statewide in nature ane will continue to be handled centrally at Bozeman.
- 6) Animal tagging and movement studies.

 Approximately 100 animals are radio marked and another 300 neck banded annually in Montana by regional and research biologists. Biologists monitor from 20 to 50 marked animals on a periodic basis resulting in considerable amounts of movement and distribution data for each marked animal. Although the various studies may deal with different wildlife species, these data can be entered and analyzed by standardized computer programs. These data could be input at the local level but would require analysis at Bozeman using graphics hardware.
- 7) Waterfowl banding and recovery.
 Band recovery information for waterfowl has been accumulating since the early 1960's and is annually updated. This data will be input and analyzed at the regional level and serves as a part of the basis for developing future management programs.
- 8) Harvest surveys.
 Harvest surveys are conducted annually for all game species for all hunting units in Montana. Due to the volume of data, the statewide nature of this project and the size of the computer programs needed, this task will continue to be

carried out at Bozeman.

Data files necessary for this task are created annually and are kept only long enough to make harvest estimates. Approximately 80 computer programs are necessary to conduct this job and nearly 30 need to be updated annually.

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TASK	I REG	G1	REG	G2 CEN	REG REG	G3 CEN	REG	G4 CEN	REG	G5 CEN	REG	G6 CEN	REG REG	G7 CEN
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ANN.UPDATE (HOURS)	1Ø		1Ø		15	-	15		1Ø		5		5	
DATA STORAGE														
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ANN.UPDATE (HOURS)	8		8		16		16		12	i na	6		16		
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DATA STORAGE INITIAL (BYTES) (M)	.32		.32	2	.64		.64		.48		.24		.64		
ANN.UPDATE (BYTES) (K)	64		64		128		128		96	ļ	48		128		
TATA ANALYS INITIAL (CORE IN K)	20		20		20		20		20		20		20		·
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ANN.UPDATE (HOURS)		6		6		6		6		6		6	,	6
DATA STORAGE										-1				
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TASK ANIMAL TAG & MOVEMENT	REG	EG1 CEN I	REG	G2 CEN	REG	G3 CEN	REG	CEN	REG	CEN	REG	CEN	REG	CEN
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INITIAL (CORE IN K)	15	15	15	15	15	15	15	15	15	15	15	15	15	15
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TASK WATERFOWL BANDING	REG	G1 CEN	REG	EG2 CEN	REG	G3 CEN	REG	G4 CEN	REG	CEN	REG	CEN	REG	CEN
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STATEWIDE

Some other tasks that individual regions would like to incorperate are listed below:

Region 2 (Missoula) -

Store and analyze plankton tows and invertebrate samples. Calculate species diversity indicies.

Region 5 (Billings) -

1)Access to other systems through the micro to transfer data files and operate their programs. These systems would include: a data file of available state lands that are up for lease that have recreation potential; and Forest Service, BLM and Fish and Wildlife Service data files and programs.

2) Fish stocking program for the high mountain lakes. Keep track of the rotation system that has been established so planning of needed stock can be made as far in the future as possible.

3)Keep a record of all Boone & Crockett and Pope & Young state records.

REG	ČĖN	REG	CÉN	REG	CÉN	REG	CEN	REG	CEN	REG	CEN	REG	CEN
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The following is a set of standards developed so each unit purchased will be compatable with those already purchased:

- a) must run CP/M
- b) contain a S-100 buss motherboard
- c) have 2 8" single-sided double-density floppies
- d) hard disk (if purchased) should be 33 megabyte or larger
- e) ability to handle 8 and 16 bit processors
- f) capability to expand to a minimum of five users
- g) each user must have his/her own processor (64K RAM or larger)
- h) 16 bit processors must run CP/M-86
- i) CRT's must be DEC VT100 compatable
- j) letter quality printer with daisy wheel able to handle both regular and legal paper, 10 and 12 pitch characters, and be compatable with Wordstar.
- k) Dot matrix printer with minimum speed of 200 cps, must be compatable with Wordstar and operating system.

INITIAL REGIONAL HARDWARE SETUP

- 2 8 bit processors
- 2 CRT's
- 1 letter quality printer
- 1 dot matrix printer
- 1 line filter
- 1 300/1200 baud modem

Option A

- 1 33 megabyte hard disk
- 1 tape backup system
- 1 set software to run tape system

Option B

- 1 16 bit processor
- 1 NDP (numeric data processor) option
- 1 CP/M-86 software
- 1 operating system software for 16 bit
- 1 CRT for new processor

Estimated costs

Base unit

two user system	\$5925.00
daisy wheel printer	\$1515.00
dot matrix printer	\$1050.00

line filter modem CRT's (2)	•		\$ 136.00 \$ 630.00 \$3000.00
Total	less	15%	\$12256.00 discount -1838.00
Total			\$10418.00

Option A

33 megabyte hard disk tape backup w/software	\$5350.00 \$3285.00
Total less 15% discount	\$8635.00 -1295.00
Total option A	\$7340.00

Option B

1 - 16 bit processor 1 - NDP option 1 - CRT	\$1990.00 \$ 595.00 \$1500.00
Total less 15% discount	\$4085.00 -612.00
Total	\$3473.00
CP/M-86 + operating sys	\$ 395.00
Total option B	\$3868.00

CENTRAL HARDWARE NEEDS

The following is the equipment that is needed in the Helena Office:

10 - single user micro computers (hatcheries)
2 - 300/1200 baud modems
1 - letter quality printer

1 - CRT

Estimated cost

Base	unit	
	One user system	\$40000.00
	modems (2)	\$ 1260.00
	CRT	\$ 1500.00
	Printer	\$ 2500.00

The following is the equipment that is needed at the Bozeman research center:

mark sense reader plotter

Estimated cost

Base	unit	is
	Mark sense reader	\$15000.00
	plotter	\$10000.00
. :	Total	\$25000.00

REGIONAL SOFTWARE NEEDS

Listed below is the general software needs by all regions:

WORD PROCESSING Wordstar, Spellstar, Mailmerge, Conversion software
of Wordstar to System6 and reverse.

DATA ENTRY -Datastar

SPREAD SHEET CALULATOR - Supercalc

COMMUNICATIONS Term II, operating system software, CP/M

LANGUAGES Basic 80, Basic compiler, Fortran

DATA COMPILATION - sorting software, DbaseII (data base manager)

Regional software costs

Word processing	\$ 395.00
Datastar	\$ 199.00
Supercalc	\$ 179.00
TermII	\$ 179.00
CP/M	\$ 150.00
operating system	\$ 595.00
Basic 80	\$ 199.00
Basic compiler	\$ 295.00
Fortran 80	\$ 325.00
Supersort	\$ 160.00
DbaseII .	\$ 429.00
Total	\$3105.00

CENTRAL SOFTWARE NEEDS

Software Packages

CP/M-86

CP/M

Wordstar

Datastar

Supercalc

Wildlife data base

Land inventory system development

Central software costs

CP/M-86	\$ 150.00
CP/M (9)	\$ 1350.00
Wordstar	\$ 395.00
Datastar (10)	\$ 1990.00
Supercalc (10)	\$ 1790.00
Wildlife data base	\$25000.00
Land inventory system	\$15000.00
Total	\$45675.00

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Regional hardware costs

Region 2 Region 3 Region 4 Region 5 Region 6 Region 7	\$ 10500.00 \$ 2050.00 \$ 20000.00 \$ 10500.00 \$ 10500.00
Total Central hardware costs	\$ 64050.00 \$ 70260.00
Total hardware costs	\$134310.00

Regional software costs

TOTAL DEPARTMENT COSTS

Region 1	\$ 429.00
Region 2	\$ 3105.00
Region 3	\$ 0.00
Region 4	\$ 3105.00
Region 5	\$ 3105.00
Region 6	\$ 3105.00
Région 7	\$ 3105.00
Total	\$ 15954.00
Central software costs	\$ 45675.00
Total software costs	\$ 61629.00

\$195939.00

APPENDICIES

- 1. Statewide data processing coordinators policies
- 2. Statewide data processing plans, goals and objectives
- 3. Department security and privacy policy

APPENDIX 1

Statewide Data Processing Coordinators Policies



State of Montana Office of the Governor Melena 59620

AECEIVED

MAY 6 1981

OIRECTUR'S OFFICE

April 28, 1981

Management Memo 4-81-2

TO:

Executive Branch Agencies

FROM:

Governor Ted Schwinden O

RE:

Data Processing Policies

INTRODUCTION

Section 18-4-111, MCA has placed the responsibility for controlling the development of data processing in the state of Montana within the Office of Budget and Program Planning.

Section 18-4-111:

Responsibilities of budget director for data processing. The budget director shall:

- (1) establish guidelines for the operation and development of data processing services by or for state government;
- (2) set priorities for the development and acquisition of data processing systems;
- (3) approve the procurement of data processing equipment before such equipment is acquired for state government by the department of administration;
- (4) approve the addition of data processing staff; and
- (5) review and approve all contracts for private sector data processing services.

DEFINITION

The term "data processing" is a generic term and refers to the collection of personnel, equipment, and computer programs necessary to perform a function related to electronic information processing services.

POLICY

The Budget Director shall establish, publish, and distribute documents containing appropriate policies, standards and guidelines related to data processing in state government. These documents may be obtained by contacting the Office of Budget and Program Planning.

OFFICE OF THE GOVERNOR BUDGET AND PROGRAM PLANNING



TED SCHWINDEN, GOVERNOR

CAPITOL BUILDING

STATE OF MONTANA

(406) 449-3616

HELENA MONTANA 59620

DPM NBR 2

TO:

All State Agencies

FROM:

Troy W. McGee

Data Processing Coordinator

DATE:

June 1, 1981

RE:

CONTRACTING FOR PROFESSIONAL PERSONAL SERVICES

Ultimately, each agency is responsible for the design, development, and support of their data processing systems. For many reasons, it is highly desirable that these efforts be performed in-house under the direct supervision and management control of the agency. However, in a number of instances, it may be desirable or necessary for these efforts to be performed by others. The following policies have been established regarding this matter:

- The Department of Administration, Information Systems Division shall be the first choice when contracting for professional personal services related to automated information systems.
- When the Information Systems Division is unable to provide the necessary services, contracting with the private sector may be appropriate.

It is necessary to document the fact that neither the agency nor the Information Systems Division can provide the services before any effort is made to contract with the private sector. To reduce the potential for wasted effort, the approval to proceed should be obtained from this office in advance. A procurement justification form (revised March 13, 1981) for data processing equipment and software should be used.

When developing a professional personal services contract, the services to be provided and the product to be delivered must be clearly and fully specified. Except for emergency situations and extenuating circumstances, whenever it is reasonably foreseeable that a proposed contract for these professional services will exceed \$5,000, the agency must request quotations from all private consultants who have requested to be placed on the State Purchasing Division bid list.



To assure management control of large projects, it is vital that the services be contracted in phases. It is recommended that a minimum of three phases be established, consisting of planning (this includes the system requirements and external design), development (this includes internal design, program development, system test and system installation) and support. Each phase would be a separate contract with appropriate deliverables defined. Further guidance on this subject can be obtained from the Customer Information Guide developed by the Information Systems Division.

Once a contractor has been selected, it is necessary to establish a contract agreement. A standard contractual agreement for Computer Software Development has been established. A copy of this Standard Contract is attached and will be used if at all possible, as it is then less likely that required contractual language will be omitted.

Finally, no contract for professional services related to data processing will be executed without the prior approval of the Data Processing Coordinator.

This AGREEMENT is made by and between the State of Montana,
(herein referred to as DEPARTMENT) and
(herein referred to as CONTRACTOR). The main purpose of this AGREEMENT is
Both the DEPARTMENT and the CONTRACTOR agree to the terms and conditions specified in this AGREEMENT.
SECTION 1 - CONTRACTOR SERVICES. The Contractor warrants that the results of this Contract will meet the functional and performance specifications and standards described in Schedule "A".
SECTION II - PERFORMANCE. Upon completion of the work described in Schedule "A", any tests as outlined in Schedule "A" shall be performed at the department site with departmental data to determine whether: a) the products meet specifications and standards described in this Contract and (b) that they perform repetitively on a variety of data without failure. If any test discloses deficiencies, the Contractor shall within days correct such deficiencies and the Department thereafter has an additional days to conduct new tests. Following successful completion of each test the Department shall notify the Contractor of acceptance.
SECTION III - WORK IN PROGRESS. It is agreed that the Department shall have the right to inspect/review all work in progress.
SECTION IV - DEPARTMENT ASSISTANCE. The Department agrees and promises to provide assistance to the Contractor as follows:
SECTION V - COMPENSATION. In consideration for services rendered pursuant to this AGREEMENT, the Department agrees to pay the Contractor an amount not to exceed \$ as detailed in Schedule "B". No additional charges shall be claimed by the Contractor for any goods or services including source documentation, error correction, upgrades, maintenance or expenses for any other material or service to be performed under this AGREEMENT.
SECTION VI - EFFECTIVE DATE AND DURATION. This Agreement shall take effect as of and shall terminate unless terminated earlier pursuant to Section XV.

STATE OF MONTANA

STANDARD COMPUTER SOFTWARE DEVELOPMENT CONTRACT

SECTION VII - ASSIGNMENT AND SUBCONTRACTING. The Agreement may not be assigned by the Contractor nor may the Contractor permit anyone other than the Contractor's personnel to perform any of the work, services or other performance required of the Contractor under this Agreement without the prior written consent of the Department.

SECTION VIII - OWNERSHIP AND PUBLICATION OF MATERIALS. The Contractor shall provide to the Department all documentation as deemed necessary by the Department for the system resultant from partial or full performance of this Agreement. This documentation shall meet standards acceptable to the Department. The Department shall retain ownership, for all purposes, of working papers, working products and end products. However, the Contractor shall retain possession of those records required by Section XIV of this Contract for three (3) years after termination of this Agreement.

SECTION IX - WARRANTIES. The Contractor warrants that the software delivered as per Schedule "A" of this Contract is free of defects and will meet the specifications described herein. The Contractor further agrees to correct any defects free of charge for a period of three months after acceptance by the Department. This provision shall not apply to problems caused by actions of Department personnel or equipment.

SECTION X - VENUE. The Department and the Contractor agree that venue for any court action arising under this Agreement shall be in the First Judicial District in and for Lewis and Clark County, Montana. Further, the Department and the Contractor agree that this Agreement shall be interpreted according to the laws of the State of Montana.

SECTION XI - INDEPENDENT CONTRACTORS. It is agreed that the Contractor is an independent contractor and not an employee of the State of Montana. Because the Contractor is an independent contractor under the terms of this Agreement, the Department shall not deduct from the Contractor's compensation to make payment for any federal, state or municipal taxes. The Contractor shall pay all federal, state and municipal taxes which may be required on the compensation paid under this Agreement. Also, the Contractor and its employees are not covered by the Worker's Compensation Laws as applicable to the Department as the employer.

SECTION XII - BONDS. If the Department determines that a bond is necessary, it is hereby agreed that the Contractor, upon adequate and due notice from the Department prior to consummation of this Agreement, will supply sufficient bond, provided by a reputable and established surety company or other method approved by the State of Montana, the terms of which will be established by the Department.

A copy of said bond shall be filed with the County Clerk and Recorder for Lewis and Clark County, and other Counties where such work is performed.

SECTION XIII - MODIFICATION. This Agreement constitutes the entire Agreement between the parties with respect to the subject matter and statements, promises, or inducements made by either party, which are not contained in this Agreement are neither valid nor binding. No amendment to this Agreement shall be effective unless it is in writing and signed by duly authorized representatives of both parties.

STATE OF MONTANA

STANDARD COMPUTER SOFTWARE DEVELOPMENT CONTRACT

SECTION XIV - RECORDS BY CONTRACTOR. The Contractor agrees and promises to keep and maintain reasonable records of activities performed under this Agreement, and allow access to these records by the Department and the Legislative Auditor as required by MCA 5-12 and 13. The Department, Legislative Auditor, or their representatives, shall have the right to access any records of the Contractor which are pertinent to the services provided under this Agreement, and such records shall be retained by the Contractor for no less than three (3) years after the termination of the Agreement.

SECTION XV - TERMINATION. Either party may terminate this Agreement without cause 30 days after delivery of written notice in hand to the other party. Further, the Department may terminate this Agreement for cause 10 days after delivery of written notice in hand to the Contractor.

Upon termination, the Department agrees to pay the Contractor according to the provisions of Schedule "B", ______

All amounts owed to the Contractor by the Department at termination may be reduced by the amount of actual and consequential loss to the Department due to detrimental reliance on this Agreement by the Department. The Contractor agrees to return all properties including copies of programs, documentation, files, intermediate materials and related supplies upon the demand of the Department.

The Contractor understands and agrees that the Department is dependent upon Federal and State appropriations for its funding, and that actions by Congress or the Montana Legislature may preclude funding this Agreement completely through the termination date stated in Section VI. Should such a contingency occur, the parties may agree to a new termination date or terminate the Agreement immediately.

SECTION XVI - EQUAL EMPLOYMENT OPPORTUNITY. Pursuant to Sections 49-2-303 and 49-3-207, Montana Code Annotated, no part of this Agreement shall be performed in a manner which discriminates against any person on the basis of race, color, religion, creed, political ideas, sex, age, marital status, physical or mental handicap, or natural origin by the persons performing the Agreement. Any hiring shall be on the basis of merit and qualifications directly related to the requirements of the particular position being filled.

SECTION XVII - FAIR LABOR STANDARDS. The Contractor agrees to comply with all applicable Federal and State wage and hour rules, statutes and regulations, and warrants that all applicable Federal State fair labor standards provisions will be complied with, both by the Contractor and any sub-contractor hired by the Contractor, in the event that sub-contracted services to fulfill the terms and conditions of this Agreement are agreed upon by the Department and the Contractor.

SECTION XVIII - SEVERABILITY. It is understood and agreed by the parties hereto that if any item or provision of this Agreement is held to be illegal or in conflict with any Montana Law, the validity of the remaining terms and provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the Agreement did not contain the particular term or provision held to be invalid. Further, the parties agree to meet within 30 days and negotiate an acceptable replacement.

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SCHEDULE "A"

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SCHEDULE "B"

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OFFICE OF THE GOVERNOR BUDGET AND PROGRAM PLANNING



TED SCHWINDEN, GOVERNOR

CAPITOL BUILDING

STATE OF MONTANA

(406)449-3616

HELENA, MONTANA 59620

DPM NBR 3

TO:

All State Agencies

FROM:

Troy W. McGee

Data Processing Coordinator

DATE:

June 1, 1981

RE:

PROCUREMENT OF EQUIPMENT AND SOFTWARE

The Office of Budget and Program Planning has the responsibility for the review and approval of all data processing equipment and software. This will help assure:

- 1. that existing data processing resources are fully utilized,
- 2. that data processing procurements are in concert with the established long range information processing plan, and
- 3. that data processing procurements are coordinated and compatible with existing data processing resources.

A form has been established (a copy is attached) which standardizes the review and approval process. This form must be completed and submitted to the Office of Budget and Program Planning for approval before any data processing equipment or software can be obtained.

The purpose of this form is to provide guidance for those preparing a justification to procure data processing equipment or software. Do not confuse this form with a request for quotation (RFP) or the establishment of specifications. These are separate subjects but are only necessary if the justification has been approved.

It is difficult to provide definitive guidance for the degree of justification required in every instance. The development of the necessary justification should never be taken lightly. It is obvious that the addition of a keypunch or terminal to an established function where the workload has increased should be simple. And the procurement of a large computer will require a comprehensive justification.



Generally, the greater the cost and complexity of the procurement, the more comprehensive the justification. If one is to err, it would be best to err on the side of a more comprehensive justification. The review and approval process will proceed more quickly with less total effort on everyone's part.

After the justification has been prepared, it should be attached to a state requisition along with the specifications and submitted to the Purchasing Division. The requisition and attached documents are then transmitted to this office for review and approval. The requisition is then neturned to the Purchasing Division, approved, approved conditionally, disapproved, or disapproved conditionally. All justifications which are either poorly done or have inadequate justification will be disapproved conditionally.

If the justification being prepared is for a large procurement, say \$25,000 or greater, or a new functional requirement is being met, it would generally be wise to obtain the review and approval before preparing the state requisition and specifications.

Your efforts to develop well documented justifications will be greatly appreciated.

STATE OF MONTANA FICE OF BUDGET AND PROGRAM PLANNING

Procurement Justification Form For Data Processing Equipment and Software

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OFFICE OF THE GOVERNOR BUDGET AND PROGRAM PLANNING



TED SCHWINDEN, GOVERNOR

CAPITOL BUILDING

STATE OF MONTANA

(406) 449-3616

HELENA, MONTANA 59620

DPM NBR 4

TO:

All State Agencies

FROM:

Troy W. McGee

Data Processing Coordinator

DATE:

June 1, 1981

RE:

3

WORD PROCESSING EQUIPMENT

In April, 1978, the state of Montana installed a shared word processing system on the Central Computer Facility. This system is called the Advanced Text Management System (ATMS III). A shared word processing system was selected for many reasons but ultimately to assure that all state agencies would have access to a high level word processing service at the least cost.

Obviously, the state has made a major commitment in this area, in both cost and resources, as this is a substantial system with all of the normal word processing capabilities and in addition, the major capabilities that only a large system can provide. Also, this system will be conducive to the new advancements which will be experienced in word processing.

It is important that this service be used whenever applicable and must be the first consideration when contemplating word processing needs. No request for word processing capabilities will be considered without justifying the need with a cost benefit analysis and a review and evaluation of this service.

Generally, the approval of word processing equipment will be contingent upon the potential capability to communicate with the computer facility in the Department of Administration. This will assure that the greater capabilities of ATMS can be utilized. (Archival document storage and retrieval, high speed printing, typesetting, ability to transfer equipment, etc.)

As a minimum, the word processing equipment must be capable of communicating via SNA (System Network Architecture) and SDLC (Synchronous Data Link Control) without any software modifications so that text transmitted to the computer facility can be processed under ATMS. The vendor may be required to demonstrate or warranty this capability. In addition, the agency

may require even greater communications capabilities depending upon the functional requirements of the system.

Further information regarding ATMS can be obtained by contacting the Computer Services Division, Department of Administration.

DUDGET AND DOGGRAM DI ANNING

BUDGET AND PROGRAM PLANNING



TED SCHWINDEN, GOVERNOR

CAPITOL BUILDING

STATE OF MONTANA

(406) 449-3616

HELENA, MONTANA 59620

DPM NBR 5

TO:

All State Agencies

FROM:

Troy W. McGee

Data Processing Coordinator

DATE:

June 1, 1981

RE:

AVAILABILITY OF STATE DEVELOPED COMPUTER SOFTWARE -

PRIVATE SECTOR

It is the opinion of our legal staff that computer software (programs) and the related documentation developed by state agencies are the personal property of the state of Montana. Therefore, computer software is not to be released to the private sector without the prior approval of this office.



OFFICE OF THE GOVERNOR BUDGET AND PROGRAM PLANNING



TED SCHWINDEN, GOVERNOR

CAPITOL BUILDING

STATE OF MONTANA

(406) 449-3616

HELENA, MONTANA 59620

DPM NBR 6

TO:

All State Agencies

FROM:

Troy W. McGee

Data Processing Coordinator

DATE:

June 1, 1981

RE:

AVAILABILITY OF STATE DATA PROCESSING EQUIPMENT -

PRIVATE SECTOR

State data processing equipment is not generally available for use by the private sector as this could produce an unfair competitive advantage in the private sector. However, it is recognized that there are certain circumstances where the use of state owned data processing equipment may be approved by the Data Processing Coordinator within the following guidelines:

- The capability to be provided by the state owned data processing equipment (excluding computer software) must not be available in the private sector in Montana.
- The use of state owned data processing equipment cannot have an adverse effect on the state data processing needs, nor can the use by the private sector be used to justify additional data processing equipment acquisitions. Only excess time on the data processing equipment may be considered for use by the private sector.
- The use of state owned data processing equipment shall be discontinued immediately when the capability is available in the private sector.
- The total cost associated with the use of state owned data processing equipment will be passed on to the individual for whom the service is provided.
- The rates used in determining the cost of providing the services will be the current published rates of the Computer Services Division and the Information Systems Division unless higher rates have been determined to be more appropriate.



Nothing in this policy statement is to be interpreted to preclude the possibility of a state agency contracting with the private sector for services which includes the use of state owned data processing equipment in order to meet the terms of the contract.

OFFICE OF THE GOVERNOR BUDGET AND PROGRAM PLANNING



TED SCHWINDEN, GOVERNOR

CAPITOL BUILDING

STATE OF MONTANA

(406) 449-3616

HELENA MONTANA 59620

DPM NBR 7

TO:

All State Agencies

FROM:

Troy W. McGee

Data Processing Coordinator

DATE:

June 1, 1981

RE:

STATE LONG RANGE INFORMATION PROCESSING PLAN

The future direction of data processing in Montana state government is outlined in the Long Range Information Processing Plan which was issued in November, 1978. The contents of this document establishes many of the basic policies and guidelines which will be followed in the future development of data processing in Montana government. Some of the subjects covered are:

- · Goals and Objectives
- · Priorities for Computer Processing
- Statewide Standards
- Management of the Teleprocessing Network
- · Establishment of the Data Processing Management Group
- Data Base Management
- Data Security and Privacy Issues
- · Etc.

Anyone involved in the data processing function should be familiar with the document. Copies of this document were widely distributed when first issued and a limited number of copies are still available from this office.



OFFICE OF THE GOVERNOR BUDGET AND PROGRAM PLANNING



TED SCHWINDEN, GOVERNOR

CAPITOL BUILDING

STATE OF MONTANA

(406) 449-3616

HELENA, MONTANA 59620

DPM NBR 8

TO:

All State Agencies

FROM:

Troy W. McGee

Data Processing Coordinator

DATE:

June 1, 1981

RE:

EQUIPMENT SPECIFICATIONS AND CONTRACTS

Each agency is responsible for developing equipment specifications and negotiating contract terms with equipment vendors. When negotiating with the vendor, it must be made clear that any contract entered into is with the state of Montana. The Data Processing Coordinator will be available for consultation and should be consulted in all major equipment acquisitions.

A standard state contract for data processing equipment has been developed and is available from this office. This document should be used as a guide since it contains many terms which may be incorporated into a contract. For example, all contracts must clearly state that the contract will be interpreted according to the Laws of Montana and venue will be the First Judicial District in Helena, Montana. To assure that all legal aspects are acceptable, the contract should be reviewed by legal counsel before it is signed.

This office will be responsible for those agreements or contracts which are deemed desirable from an overall state perspective. For example, volume discounts, fiscal year terminations, uniform anniversary dates, price protection, etc.

OFFICE OF THE GOVERNOR BUDGET AND PROGRAM PLANNING



TED SCHWINDEN, GOVERNOR

CAPITOL BUILDING

STATE OF MONTANA

(406) 449-3616

HELENA MONTANA 59620

DPM NBR 9

TO:

All State Agencies

FROM:

Troy W. McGee

Data Processing Coordinator

DATE:

June 1, 1981

RE:

DISPOSAL OF DATA PROCESSING EQUIPMENT

It is important that the state of Montana receive the greatest value possible when disposing of data processing equipment. Depending upon the status of the equipment, there are a number of options which should be evaluated.

If the equipment is owned, should it be:

- 1. used as a trade-in?
- 2. relocated to another agency?
- 3. sold to a third party?

If the equipment is rented or leased, should it be:

- 1. returned to the vendor?
- 2. relocated to another agency?
- 3. purchased considering the options for equipment that is owned?

To assure that all options are fully evaluated, the disposal of data processing equipment will require the prior approval of the Data Processing Coordinator. When the disposal of any data processing equipment is contemplated, please notify this office as soon as practical, in writing. Describe the equipment in detail, along with the financial status as of the projected disposal date. You will be be notified as to the appropriate disposal selected. Your vigorous compliance with this policy can be financially rewarding to the state of Montana.

OFFICE OF THE GOVERNOR BUDGET AND PROGRAM PLANNING



TED SCHWINDEN, GOVERNOR

CAPITOL BUILDING

STATE OF MONTANA

(406) 449-3616

HELENA MONTANA 59620

DPM NBR 11

TO:

All State Agencies

FROM:

Troy W. McGee

Data Processing Coordinator

DATE:

March 9, 1982

RE:

DISASTER CONTINGENCY PLANS

The purpose of this memo is to establish a policy regarding the development of a disaster contingency plan related to data processing work done on the Central Computer Facility operated by the Department of Administration. All agencies which utilize the central computer facility services must clearly understand what is meant by a disaster and the responsibilities of the parties involved.

A disaster is the destruction, either partially or fully, of the central computer facility such that processing will be discontinued for at least ten (10) days. An example would be the destruction of the computer facility or a major component by fire.

The ultimate goal of the disaster contingency plan is to anticpate the possible effects of catastrophic events and then establish a planned response that will minimize the detrimental effects on the operations of state government. It is not realistic to establish a plan where there will be no detrimental effects as the cost would be prohibitive.

The Computer Services Division is responsible for the development and maintenance of a disaster contingency plan designed to coordinate the systematic recovery of data processing in state government by providing alternative processing capabilities within the following time frames:

· ·INTERIM PROCESSING

The plan must include the capability of processing the most critical state applications within ten (10) days after the disaster has occur-

red. This includes both the hardware and system software necessary to process these applications. Specialized software is included in the definition of system software, such as CICS, IDMS, VSAM, SYNCSORT, etc.

•TEMPORARY COMPUTER FACILITY

The plan must include the establishment of a temporary computer facility capable of processing 75% of all existing state applications within thirty (30) days after the disaster has occurred.

•PERMANENT COMPUTER FACILITY

The plan must include the establishment of a permanent computer facility capable of processing all existing state applications within a period of six (6) months after the disaster has occurred.

Backup and recovery of critical data, programs and documentation is the user agencies' responsibility. However, Computer Services Division is responsible for providing a secure off-sight data storage facility and a means for users to effectively utilize it.

The user agencies are responsible for developing their own disaster contingency plans, where deemed appropriate, for those functions performed at the agency level. This is of particular importance for those agencies with installed distributive processors.

The Computer Services Division is available to provide specific disaster planning guidance. The user agencies must apprise the Computer Services Division on an established form what their hardware and software requirements at the central computer facility will be in case of a disaster. These requirements will be based upon the criticality of the applications as viewed from the agency's perspective. This office will be responsible for prioritizing the critical applications from the state's perspective.

OFFICE OF THE GOVERNOR BUDGET AND PROGRAM PLANNING



TED SCHWINDEN, GOVERNOR

CAPITOL BUILDING

STATE OF MONTANA

(406) 449-3616

HELENA, MONTANA 59620

DPM NBR 12

TO:

All State Agencies

FROM:

Troy W. McGee

Data Processing Coordinator

DATE:

March 9, 1982

RE:

TRANSFER OF COMPUTER PROGRAMS BETWEEN STATE AGENCIES

Many computer programs developed by one state agency can be used by another state agency with little or no modifications. This is particularly true in the case of generalized computer functions. Even specialized computer functions may be useful to other state agencies in some circumstances.

To help make these computer programs more readily available to other state agencies, the Computer Services Division has agreed to establish an automated system to record the main features of computer programs available from other state agencies. Every agency is asked to participate in this effort by filing an abstract for those computer programs they believe could be used by other agencies.

By making this computer program list available to all state agencies it is possible to reduce the instances where state agencies are "re-inventing the wheel." Also, it is an established policy that there will be no fee other than reproduction, for the computer programs being transfered unless there are some extenuating circumstances.



TATE OF WORLDAND

Office of the Governor

Budget and Program Planning

Governor George L. Bousliman

Thomas L. Judge

Director

Capitol Building - Helena, Montana 59601

September 26, 1979

MENORANDUM

TO:

Don Lovely, Chief

Data Processing Bureau

Montana Department of Highways

FROM:

Michael J. Meldahl-

Data Processing Coordinate

RE:

Policy on the Availability of State Developed Computer Software

The Department of Highways Data Processing Bureau has received a request to provide a private contractor with a copy of the computer program and the program documentation used by the department for road design. It is the opinion of our legal staff that state developed software and documentation fall into the category defined in MCA 2-6-104. This law states:

. . "the public records and other matters in the office of any officer are at all times open to the inspection of any person."

Based on this opinion, state developed software and documentation shall be made available to the private sector. The costs to list and reproduce the documentation will also be passed on the individual requesting the information. The rate charged for computer time is the published rate currently being charged by the Computer Services Division of the Department of Administration. The rate charged for state personnel involved in making the information available is the published rate currently being charged by the Information Systems Division of the Department of Administration.

Please note that this policy applies <u>only</u> to the availability of State developed computer software. At no time is State owned computer hardware available for private use.

If you have any further questions regarding this policy please contact me.

cc: Data Processing Managers

OFFICE OF THE GOVERNOR

STATE ON

BUDGET AND PROGRAM PLANNING

THOMAS L. JUDGE, GOVERNOR

STATE CAPITOL, HELENA, MT 59601

SONTANY

GEORGE L. BOUSLIMAN, DIRECTOR

October 10, 1979

MEMORANDUM

TO:

All Data Processing Managers

FROM:

Michael J. Meldahl

Data Processing Coordin

RE:

State Policy on Distributive Processing

The current policy of the State of Montana is to strive to optimize the service benefits and cost effectivenss of combining centralized large scale batch processing and decentralization of user interface functions such as data capture, date editing, job submssion, and special output processing. To accomplish this optimization, I have selected the IBM 8100 Processor as the distributed processor which fits the majority of the needs of our remote data centers.

In order to effectively install and obtain the maximum production from the 8100 processor, I have placed the responsibility for the 8100 operating system and change control with the Technical Services Bureau of the Computer Services Division of the Department of Administration. The Technical Services Bureau will be responsible for maintaining a central software system and for supplying all new releases of the operating system to the IBM 8100 Processors remotely located throughout the State of Montana.



Office of the Governor

Budget and Program Planning

Thomas L. Judge Governor

George L. Boustiman Director

Capitol Building - Helena, Montana 59601

June 12, 1979

MEMORANDUM

TO:

All Data Processing Managers

FROM:

Michael J. Meldah

Data Processing Condinator

Attached is a copy of the State of Montana Data Base Policy Statement. This policy will go into effect July 1, 1979.

STATE OF MONTANA DATA BASE POLICY STATEMENT

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- B. Responsibilities
 - B.1 The Users
 - B.2 Management
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 - B.4 Computer Operations/System Programming
 - B.5 The Vendors
 - B.6 Education
- C. Application System Development Interfaces