

FISHERY RESEARCH



Job Performance Report
July 1, 1997 to June 30, 1998

ANNUAL PERFORMANCE REPORT

F-73-R-20

Project 1. Fisheries Research Supervision
Project 2. Statewide Fisheries Statistical
Assistance, Angler Opinions, and
Harvest Surveys

By:

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June 1998

ANNUAL PERFORMANCE REPORT

State of: Idaho Grant: F-73-R-20, Fishery Research
Project No. 1 Title: Fishery Research Supervision
Contract Period: July 1, 1997 to June 30, 1998

OBJECTIVE

1. To annually provide administrative and technical support, direct field operations, and planning for each of the Idaho Department of Fish and Game (IDFG) fishery research projects (15) to produce:
 - a) a work plan
 - b) a project statement
 - c) a report, and
 - d) a project review
2. To provide technical training and continuing education for IDFG's fishery staff (45) in procedures, technical writing, and statistical design and analysis.
3. To provide technical edits, peer review, and publications of 41 to 50 fishery activities and findings of IDFG for permanent record.
4. To maintain the IDFG report resource reference area and a computerized report data base.
5. To provide office space and equipment storage for field staff at the Nampa Fisheries Research Center.

ADMINISTRATION AND PLANNING

Direct supervision was provided to six Principal Fishery Research Biologists, and one Fishery Staff Biologist. Indirect supervision was provided to twelve Fishery Research Biologist and six Senior Fishery Technicians.

Sport Fish Restoration, Bonneville Power Administration, and U.S. Fish and Wildlife Service Lower Snake River Compensation Plan grants and contracts to support nineteen Department and three University conducted research projects were prepared and submitted. Individual study review, work plan, and study design meetings were conducted for various projects. Field reviews were conducted on five projects.

TRAINING

A review training was initiated in order to begin developing fish species special distribution data files. A training seminar was attended.

PUBLICATIONS

Annual reports and research briefs were reviewed, edited, prepared by word processing specialists for printing, and submitted to funding sources.

RESOURCE REFERENCE AREA

The Report Reference Area and Fisheries Report Catalog System were maintained and copies of reports provided in response to requests.

SPORT FISH RESTORATION CORDINATION

The submission of annual grant agreements was coordinated. Developments in Sport Fish Restoration Program rules and policies were communicated to potentially affected Department personnel. Sport Fish Restoration funding levels among bureaus was coordinated during the state budget preparation process.

OTHER

I coordinated Idaho Department of Fish and Game comments in response to Endangered Species Act petitions to list Yellowstone, Westslope, and Bonneville cutthroat as threatened throughout their respective native ranges.

Author:

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Fishery Research Manager.

Annual Progress Report

State of: Idaho Grant No.: F-73-R-20
Project No: 2 Title: Statewide Fisheries Statistical Assistance,
Angler Opinions, and Harvest Surveys.
Period Covered: July 1, 1997 to June 30, 1998

OBJECTIVES

1. To provide estimates of harvest and effort for the following species: steelhead.
2. To provide IDFG personnel with training and support in angler survey design, implementation, and analysis.

RESULTS

- I. The following harvest surveys were completed with results distributed to management and reported in separate management documents and electronically on the Internet:
 - A. 1997 Spring Steelhead Season Harvest Survey.
 - B. 1998 Fall Steelhead Season Harvest Survey.
 - C. 1997 Statewide Fishing Rules Survey.
 - D. 1997 Chinook Harvest and Economic Survey.
- II. Conferences:

Participated in National Freshwater Fisheries Database Summit and National Aquatic GAP Workshops in San Diego.
- III. Administration:
 - A. University contracts preparation and progress reports review.
 1. Montana State University - Henry's Fork of Snake River.
 2. University of Idaho - Kootenai River Sturgeon.
 3. University of Idaho - Pend Oreille Studies (2).
 4. University of Idaho - Cooperative Unit Fisheries Studies (3 projects).
- IV. Projects:
 - A. Upgraded computer hardware and operating systems to identical configurations, installed standardized 32-bit software on all fisheries bureau, seven fisheries research, three for resident hatcheries, and one regional fisheries biologist personal computer.
 - B. Reviewed and edited New Proposed Smolt Estimation Methodology, calculated estimates and confidence intervals surrounding the estimates using three separate classical methodologies for statistical comparison, consulted with university statistician, produced and distributed written results and recommendations from both the university and myself.

- C. Continued support in use of Creel Program v2.3 was supplied to Research and Regional Fisheries personnel upon request.
- D. Assisted with design, performed sample size calculations, verified and distributed results, with confidence intervals for 1997 chinook season on Clearwater River.
- C. Continued Library Computerization with hardware and software upgrades.
- F. Performed 1996 Angler Diary data analysis.
- G. Extracted Oracle table from License Management System for four regional surveys. Exported the data into a comma delimited file, translated the comma delimited file in to database then imported into SYSTAT file for sample selection to meet survey specifications. An electronic copy of the sample in database format and a set of mailing labels were provided. Data Entry screens with error checking were provided upon request.
- H. Continued consultation on Arrowrock Bull trout mark-recapture study provided to Southwest Regional fishery manager and Fisheries Technician.
- I. Statistical Consultation and computer training while collecting steelhead harvest and biological data at access point check station for Harvest Monitoring and Evaluation Project.
- J. Coordination and consultation with Coded-Wire Tag Lab in redesign and development of database application I wrote 12 years ago. Application to be designed in Access with the use of Visual Basic 5.0 for use on Windows 95 or NT system. Data will be made web accessible using ORACLE.
- K. Assisted Natural Resources Policy Bureau in creation of spatial data dictionary by providing schema and metadata for fisheries databases.
- L. Assisted Natural Resources Policy Bureau in extraction of historic fisheries population data from a statewide system developed by J. Janoch and myself (1984) in dBase II using USCD-pcode for the Honeywell 610 System and the first ms-dos personal computers introduced to the Idaho Department of Fish and Game (Department).
- M. Continued regular consultation on use, computational methods, assumptions, and interpretation of results of parametric and non-parametric statistics to fisheries personnel.
- N. Continued computer technical support and programming supplied to fisheries personnel for both hardware and software. .
- O. Prepared RFP for Historical Perspective of Anadromous Fisheries Management in the State of Idaho for legal review.
- P. Provided consultation, assisted in literature review of surveys from other states on Information Marketing, made database query recommendations to help solve perceived marketing issues. Subsequently appointed to the Idaho Wildlife Marketing Team.

Q. Scored Fisheries Employment Applications at Idaho Personnel Commission.

R. Assisted in processing and coding of invoices and requests for services for Fisheries Research personnel.

V. Team Membership:

A. Resident Fisheries:

1. Coordinated Fisheries Section of Website.
2. Posted the announcements with applications to fisheries list servers and news groups.
3. Assisted fisheries personnel in literature searches, fisheries newsgroup and list servers for postings for specific information, and locating fisheries resources.
4. Assisted team in obtainment third in the category of Conservation Agency Website.
5. Assisted in establishment on intranet drive and responsible for all placement of fisheries management on this read-only drive.
6. Facilitated access to IDFG LAN and E-mail through internet for use by Department personnel from off-site location setup.
7. Attended Network Security for the State of Idaho at Department of Administration at request of and with IDFG Management Information Bureau Chief to address issues of data access and firewalls.

B. Biological Data Team:

1. Placed Historical Fish Stocking on Internet using Microsoft Access.

C. Internet Team.

D. IDFG Database Team:

1. Assisted in implementation of the standardizing of Oracle Tables for Department statewide fisheries databases to facilitate use and search abilities using Internet technologies.
2. Worked with Administrative Development and Database Administrator on License Management System to enforce referential integrity to ensure unbiased sampling for surveys or drawings with table modifications for data capture of critical information.
3. Participating in Hatchery Evaluation Database review, redesign, prioritization and entity relationship modeling with new Biological Database Development personal.
4. Continued work in standardization of coding, documentation, rapid application development tools, and system specifications with Management Information and Natural Policy Resource Policy Bureau computer application developers.

Author:

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Fisheries Staff Biologist