MONTANA DEPARTMENT OF FISH, WILDLIFE AND PARKS

FISHERIES DIVISION

JOB PROGRESS REPORT

STATE: MONTANA   PROJECT NUMBER: F46R3
                           JOB NUMBER: VI-B

PROJECT TITLE: STATEWIDE FISHERIES INVESTIGATIONS
STUDY TITLE: STATEWIDE SURVEYS AND INVENTORY
JOB TITLE: STATISTICAL SERVICES
PERIOD COVERED: JULY 1, 1989 THROUGH JUNE 30, 1990

JOB OBJECTIVES

Maintain a computerized catalog of stream and lakes. Continue cooperative effort with federal agencies to computerize lake and stream survey information. Coordinate and develop programs to enable the electronic processing of data too voluminous or complex to compile by hand. Statistically analyze methods and data when requested. Coordinate the use of consulting statisticians and contract programmers when requested or needed. Gather trend information on catch rates by species through the use of volunteer fisherman log holders. Maintain a computerized list of fish plants and requests for plants.

ACCOMPLISHMENTS

All objectives were fulfilled.

The lake and stream name file and cataloging system was maintained. New water names were entered as inventories were completed by field personnel and corrections of existing entries were made as needed. A total of 11,420 waters are now catalogued.

Data for 5564 stream reaches have now been entered into the stream fishery data bank. Development of a window based computer program retrieval system was developed. Data for 1984 lakes have now been entered into the lake fishery data bank. Development of a retrieval system for the lake data was started.

The mark-recapture computer system was rewritten. Included was a feature to model the capture efficiencies and thus automate the proper selection of length groups.

Statistical analysis of various data and methods were made periodically throughout the project period.

Fish planting records were recorded and added to the fish planting database. Data for 59,593 plants have now been entered.

Workshops were provided for on the proper use of software for the computer. Assistance and trouble shooting of both hardware and software were provided when requested.

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Date: August 11, 1990.