

MONTANA DEPARTMENT OF FISH, WILDLIFE AND PARKS

FISHERIES DIVISION

JOB PERFORMANCE REPORT

State: Montana Title: Southwest Montana Fisheries Investigation
Project No.: F-9-R-31 Title: Inventory and Survey of the Waters of the
Job No.: 1-b Big Hole and Ruby River Drainages
Period Covered: July 1, 1982 through June 30, 1983

OBJECTIVES

1. To determine spring or fall population estimates in at least 2 (two) sections of the Big Hole River and one section of the Ruby River.
2. To monitor daily discharge and water temperatures at one location on the Big Hole River.
3. To assess the effect of special angling regulations on the trout population of one section of the Big Hole River.
4. To mitigate or enhance habitat alterations due to agricultural, residential, mining and industrial development.

DEGREE OF ATTAINMENT

1. Spring and fall wild brown and rainbow trout population estimates were made for the Melrose and Maiden Rock study sections of the Big Hole River, and a spring population estimate was made for wild brown trout in the Sailor section of the Ruby River. Data will be presented in a future progress report.
2. Discharge and water temperatures were monitored at one location on the Big Hole River. Data will be presented in a future progress report.
3. Spring and fall wild brown and rainbow trout population estimates were made for the Maiden Rock study sections of the Big Hole River.
4. A total of sixteen Stream Preservation Act Applications were inspected.

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Date: September 20, 1983