## MONTANA DEPARTMENT OF FISH & GAME FEDERAL AID IN FISH RESTORATION SECTION HELENA, MONTANA

## JOB COMPLETION REPORT INVESTIGATIONS PROJECTS

State of	Montana	
Project No	• F7R8	Name Northwest Montana Fishery Study
Job No	I	Title Inventory of Waters of the Project Area
Period Cov	ered: May 1, 1958 to A	pril 30, 1959
Abstract:	fifteen lakes were sam	e surveyed for chemical, physical and biological al photographs were taken of twenty lakes and pled for fish populations. Also, three lakes ration for rehabilitation.
Objectives	and blological character the total recreational	project is to determine the physical, chemical eristics of the waters of highest importance to fisheries picture of the project area, and wher estimates of existing or potential fisherman us
Techniques	were observed for spawn	were taken by gill netting. Inlets to lakes ning facilities. Aerial photographs were taken constructed. Depths were determined with the
Findings:	Handkerchief Lake, Litt	re sampled for fish populations: Big Picnic tal Lake, East Jewel Lake, Foy Lake, Frank Lake, the Picnic Lake, Milnor Lake, North Jewel Lake, ake, South Jewel Lake, Twin Lake No. 1, and
	Aerial photographs were	e taken of the following lakes: Big Beaver

Aerial photographs were taken of the following lakes: Big Beaver Lake, Boyle Lake, Burgess Lake, Dog Lake, Dollar Lake, Fish-Trap Lake, Handkerchief Lake, Holland Lake, Lauri Lake, Little Beaver Lake, Lone Pine Reservoir, Lower Stillwater Lake, Murray Lake, Rainbow Lake, Skyles Lake, Smith Lake Rearing Pond, Spencer Lake, Upper Dry Fork Reservoir, Upper Stillwater Lake, and Wall Lake.

Volumes were calculated for the following lakes: Loon Lake, Tetrault Lake, and Twin Lakes.

The following lakes were surveyed for various physical, biological and chemical characteristics: Big Picnic Lake, Black Lake, East Jewel Lake, Frank Lake, Handkerchief Lake, Jim Lake, Little Picnic Lake, North Jewel Lake, South Jewel Lake, Spring Lake, Twin Lake No. 1, Twin Lake No. 2, and eleven unnamed lakes.

Public fishing access was obtained on Sophie Lake, Crystal Lake and Flathead Lake.

Information collected before the 6" x 9" lake and stream data cards were made was taken from the files and placed on survey cards. All information collected was placed on two sets of 6" x 9" survey cards, one set retained at district headquarters and the other forwarded to the Helena office.

Recommendations: It is recommended that this study be continued as it is furnishing much needed data for the rehabilitation work that is anticipated and also for sound recommendations on plantings of fish.

Prepared	by F.A.	Stefanich	Approved	by	Leonge	$\mathcal{D}$	Holton
Date	April	17, 1959	~	•	V	Security (Security of Security)	Malling and the second construction of the secon