

STUDY PERFORMANCE REPORT

State: Michigan

Project No.: F-81-R-3

Study No.: 698

Title: Inventory and evaluation of stream habitat improvements

Period Covered: October 1, 2001 to September 30, 2002

Study Objectives:

- 1) To compile statewide information on stream habitat improvement projects.
- 2) To determine the extent to which stream habitat improvements have been evaluated.
- 3) To evaluate habitat improvements by stream type. Valley segments will be used as a sampling framework to evaluate habitat improvement projects.
- 4) To develop criteria for habitat improvement projects, and then to classify stream segments as to their suitability for habitat improvements.

Summary: Paul Steen, a graduate student at the University of Michigan, was hired to work on this project. Much of the year was spent traveling statewide to collect habitat improvement information filed in various Fisheries Division Management Unit offices and in Michigan Department of Environmental Quality offices in Lansing. Information was also obtained from the U.S. Forest Service and from several non-profit groups. A GIS project was created showing the spatial location of over 700 stream habitat improvement projects within the valley segment ecological classification system. A database was constructed that enables each location to be linked to information such as the year and cost of construction, the group responsible for construction, the type of improvement, and whether or not the project was evaluated.

Findings: Jobs 1, 2, and 7 were scheduled for 2001-02, and progress is reported below.

Job 1. Title: Compile habitat improvement information.—Information from over 700 stream habitat improvement projects were obtained from MDNR Fisheries Division, Michigan Department of Environmental Quality, U.S Forest Service and, several non-profit groups. Information on type, location, cost, date of construction, and evaluation of habitat improvement projects were compiled into a database.

Job 2. Title: Assign habitat improvements to Valley Segments.—The locations of over 700 stream habitat improvement projects have been mapped in ArcView. Where possible, habitat improvements have been assigned to valley segments. In some instances, projects are located on smaller streams that are not classified as part of the current valley segment ecological classification.

Job 7. Title: Write reports.—This annual progress report was prepared as scheduled.

Prepared by: Kevin E. Wehrly

Date: September 30, 2002