

## STUDY FINAL REPORT

**State:** Michigan

**Project No.:** F-81-R-7

**Study No.:** 230662

**Title:** Inventory and classification of Michigan rivers and river fish communities.

**Period Covered:** October 1, 2005 to September 30, 2006

**Study Objective:** (1) Extend and modify as necessary models under development for Lower Peninsula rivers that describe site-specific fish habitat variables using watershed-scale variables to rivers of the Upper Peninsula; (2) Using variables defined in (1), classify Michigan river habitats into distinct types; (3) Determine composition of Upper Peninsula river fish communities from historic data and electrofishing surveys; (4) Extend and modify as necessary models predicting fish populations and community characteristics from site-specific and watershed-scale habitat variables that are being developed for Lower Peninsula rivers to include Upper Peninsula rivers; (5) Classify Michigan river fish communities into distinct types based on habitat classification; (6) Evaluate interactions between water temperature and fish community dynamics, including distribution and abundance for Michigan river fish communities.

**Findings:** Only Job 7 was scheduled for 2005-06, and progress is reported below.

**Job 7. Title: Publish Final Report.**—Results of this study are published as:

Baker, E. A. 2006. A landscape-based ecological classification system for river valley segments in Michigan's Upper Peninsula. Michigan Department of Natural Resources, Fisheries Research Report 2085, Ann Arbor.

**Prepared by:** Edward A. Baker

**Date:** September 30, 2006