STUDY FINAL REPORT

State: Michigan **Project No.:** F-80-R-8

Study No.: 230669 **Title:** Prey selection and predation rate of piscivorous fish

Period Covered: April 1, 1996 to September 30, 2007

Study Objective: To estimate survival of juvenile bluegills in ponds as a function of bluegill size and density, and predator size and density; and to concurrently measure predator survival and growth.

Findings: Only Job 9 was scheduled for 2006-07, and progress is reported below.

Job 9. Title: Publish final report.–Results of this study are published as:

Breck, J. E. In press. Aspects of fish growth and predator-prey interactions: modeling relative weight, predicting maximum prey size, and evaluating predator growth and prey survival in experimental ponds. Department of Natural Resources, Fisheries Research Report, Ann Arbor.

The research report contains a description of the experiments conducted, the models developed, and the regressions fitted in order to quantify prey selection and predation rate of piscivorous fish and the consequences for growth.

Prepared by: James E. Breck
Date: September 30, 2007