

STUDY FINAL REPORT

State: Michigan

Project No.: F-35-R-22

Study No.: 633

Title: Effects of temperature on competition
between juvenile brook and brown trout

Period Covered: April 1, 1996 to March 31, 1997

Study Objective: To determine the relationship between temperature and an index of ration on the growth rate and production of juvenile trout in streams in the northern Lower Peninsula of Michigan. We will determine the growth rate and production of YOY brook and brown trout in twelve small streams in northern Lower Peninsula and from additional larger sites on the Au Sable River. These data will be related to the thermal regime and an index of invertebrate productivity at these sites to determine the proportion of the variance in growth rate and productivity of YOY trout explained by these parameters.

Findings: Results of this study will be given in the following research reports:

Hinz, L. C., Jr. and M. J. Wiley. 1997. . Growth and production of juvenile trout in Michigan Streams: Influence of temperature. Michigan Department of Natural Resources, Fisheries Research Report 2041.

Hinz, L. C., Jr. and M. J. Wiley. 1997. Growth and production of juvenile trout in Michigan Streams: Influence of realized ration and temperature. Michigan Department of Natural Resources, Fisheries Research Report 2042.

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Date: March 31, 1997