

**Research papers using data collected at the
Saline Fisheries Research Station**

Prepared by Jim Breck, 9/2/03

- Fielder, D. G. 2002. Sources of walleye recruitment in Saginaw Bay, Lake Huron, and recommendations for further rehabilitation. Michigan Department of Natural Resources, Fisheries Research Report No. 2062, Ann Arbor. [We used the ponds at Saline to hold oxytetracycline-marked walleye so that Dave Fielder would have a reference set of marked fish to compare with field-caught fish.]
- Wehrly, K. E. 1999. The influence of thermal regime on the distribution and abundance of stream fishes in Michigan. Ph.D. dissertation, University of Michigan, Ann Arbor. [Experiments on the overwinter survival of brown trout, smallmouth bass, and rock bass were conducted in the lab at Saline.]
- Breck, J. E. 1998. Development of a warmwater fish community model. Michigan Department of Natural Resources, Fisheries Research Report No. 2033, Ann Arbor. [Some data on bluegill came from measurements of Saline fish.]
- Gray, T. R., J. E. Breck, and P. W. Webb. 1998. Effects of age-1 bluegill on large zooplankton and age-0 bluegill growth and recruitment. Michigan Department of Natural Resources, Fisheries Research Report No. 1990, Ann Arbor. [This report describes experiments conducted in Saline ponds.]
- Diana, J. S., G. Y. Belyea, and R. D. Clark Jr., editors. 1997. History, status, and trends in populations of yellow perch and double-crested cormorants in Les Cheneaux Islands, Michigan. Department of Natural Resources, Fisheries Special Report No. 17, Ann Arbor. [Jaw-tagged yellow perch were held in Saline ponds to help estimate the rate of tag loss. This was done to support the yellow perch tagging study conducted in the Les Cheneaux Islands, which helped evaluate effects of cormorant predation on fish.]
- Breck, J. E. 1997. Hurry up and wait: growth of young bluegills in ponds and in simulations with an individual-based model. Department of Natural Resources, Fisheries Research Report No. 1995, Ann Arbor. [This report uses information on fish and zooplankton in Saline ponds.]
- Breck, J. E. 1996. Mechanisms of recruitment failure in bluegill ponds. Michigan Department of Natural Resources, Fisheries Research Report No. 2024, Ann Arbor. [This report describes a large set of bluegill experiments conducted in the Saline ponds.]
- Schneider, J. C., and J. E. Breck. 1996. Overwinter consumption of bluegill by walleye and yellow perch. Michigan Department of Natural Resources, Fisheries Research Report No. 1992, Ann Arbor. [This report describes experiments conducted in Saline ponds.]

- Wehrly, K E. 1995. The effect of temperature on the growth of juvenile lake sturgeon, *Acipenser fulvescens*. Michigan Department of Natural Resources, Fisheries Research Report No. 2004, Ann Arbor. [Some of the sturgeon used in the experiments described in this report were held in the lab at Saline.]
- Breck, J. E. 1993. Hurry up and wait: growth of young bluegills in ponds and in simulations with an individual-based model. Transactions of the American Fisheries Society 122:467-480. [This report describes experiments conducted in Saline ponds.]
- Schneider, J. C. 1993. Dynamics of good bluegill populations in two lakes with dense vegetation. Michigan Department of Natural Resources, Fisheries Research Report No. 1991, Ann Arbor. [The experiments on bluegill reproductive potential described in this report were conducted at the Saline ponds.]
- Schneider, J. C. 1990. Use of 230-V AC electrofishing for mark-recapture studies of warmwater fish. Michigan Department of Natural Resources, Fisheries Research Report No. 1982, Ann Arbor. [One of the electrofishing experiments described in this report was conducted at the Saline ponds.]
- Clark, R. D., Jr., and R. N. Lockwood. 1961. Population dynamics of bluegills subjected to harvest within the 5- to 7-inch size range. Michigan Department of Natural Resources, Fisheries Research Report No. 1982, Ann Arbor. [All of the experiments described in this report were conducted at the Saline ponds.]
- Clapp, D. F., and R. D. Clark, Jr. 1986. Hooking mortality of smallmouth bass caught on live minnows and artificial spinners. Michigan Department of Natural Resources, Fisheries Technical Report 87-5, Ann Arbor. [The experiment described in this report was conducted at Saline, using the outdoor raceways.]
- Laarman, P. W., and J. C. Schneider. 1985. Maturity and fecundity of largemouth bass as a function of age and size. Michigan Department of Natural Resources, Fisheries Research Report No. 1931, Ann Arbor. [The experiments described in this report were conducted at the Saline ponds.]
- Laarman, P. W., and J. W. Merna. 1980. Reproductive potential of largemouth bass in ponds and food habits of fingerlings. Michigan Department of Natural Resources, Fisheries Research Report No. 1886, Ann Arbor. [The experiments described in this report were conducted at the Saline ponds.]
- Merna, J. W., and P. Queener. 1977. Results of short-term exposure of stream organisms to methoxychlor. Michigan Department of Natural Resources, Fisheries Research Report No. 1852, Ann Arbor. [The experiments described in this report were conducted at the Saline outdoor raceways.]

- Latta, W. C., and J. W. Merna. 1977. Some factors influencing size of the year class of bluegills (*Lepomis macrochirus*) in ponds. Michigan Academician 9(4):483-502. [The experiments described in this report were conducted at the Saline ponds.]
- Latta, W. C., and J. W. Merna. 1976. Some factors influencing size of the year class of bluegills (*Lepomis macrochirus*) in ponds. Michigan Department of Natural Resources, Fisheries Research Report No. 1835, Ann Arbor. [The experiments described in this report were conducted at the Saline ponds.]
- Schneider, J. C. 1975. Survival, growth, and food of 4-inch walleyes in ponds with invertebrates, sunfishes, or minnows. Michigan Department of Natural Resources, Fisheries Research Report No. 1833, Ann Arbor. [The experiments described in this report were conducted at the Saline ponds.]
- Laarman, P. W. 1974. Growth, survival, and reproduction of bluegill x green sunfish hybrids. Michigan Department of Natural Resources, Fisheries Research Report No. 1810, Ann Arbor. [The experiments described in this report were conducted at the Saline ponds.]
- Schneider, J. C. 1973. Influence of diet and temperature on food consumption and growth by yellow perch, with supplemental observations on the bluegill. Michigan Department of Natural Resources, Fisheries Research Report No. 1802, Ann Arbor.
- Schneider, J. C. 1973. Density dependent growth and mortality of yellow perch in ponds. Michigan Department of Natural Resources, Fisheries Research Report No. 1795, Ann Arbor. [The experiments described in this report were conducted at the Saline ponds.]
- Merna, J. W., M. E. Bender, and J. R. Novy. 1970. The effects of methoxychlor on fishes. I. Acute toxicity and breakdown studies. Michigan Department of Natural Resources, Fisheries Research Report No. 1772, Ann Arbor. [The experiments described in this report were conducted in the lab at Saline.]
- Laarman, P. W. 1970. Seasonal variation in protein content of bluegill pituitary glands. Michigan Department of Natural Resources, Fisheries Research Report No. 1768, Ann Arbor. [The fish for the experiments described in this report were held at the Saline ponds.]

I know there have been several Master's theses and perhaps doctoral dissertations at the University of Michigan for which some of the experiments or observations have been conducted at the Saline Fisheries Research Station. Research studies have been done on fish, turtles, crayfish, tadpoles, and other organisms.

Research papers using data collected at other state-owned ponds.

Beyerle, G. B. 1984. Comparative survival of pellet-reared muskellunge stocked as fingerlings in bluegill ponds with and without largemouth bass. Michigan Department of Natural Resources, Fisheries Research Report No. 1920, Ann Arbor. [The experiments described in this report were conducted in the five state-owned ponds at Alma, Van Buren County.]

Beyerle, G. B. 1983. Survival and growth of 5-, 10-, and 15-cm walleye fingerlings stocked in ponds with bluegills. Michigan Department of Natural Resources, Fisheries Research Report No. 1910, Ann Arbor. [The experiments described in this report were conducted in three research ponds at Belmont, Kent County.]

Beyerle, G. B. 1977. Results of attempts to optimize growth and survival of bluegills in ponds by yearly population manipulation. Michigan Department of Natural Resources, Fisheries Research Report No. 1856, Ann Arbor. [The experiments described in this report were conducted in the research ponds at Belmont, Kent County.]

Beyerle, G. B., and J. E. Williams. 1972. Survival, growth, and production by bluegills subjected to population reduction in ponds. Michigan Department of Natural Resources, Fisheries Research Report No. 1788, Ann Arbor. [The experiments described in this report were conducted in the research ponds at Belmont, Kent County.]

Beyerle, G. B., and J. E. Williams. 1965. Some observations of food selectivity by northern pike and bowfins in aquaria. Michigan Department of Natural Resources, Fisheries Research Report No. 1704, Ann Arbor. [The experiments described in this report were conducted in the lab at Hastings.]

According to Carl Latta (personal communication to Jim Breck, 9/2/03), the former research station at Hastings, Michigan, was intended to be the warmwater research facility. George Beyerle was there with John Williams. They emphasized research on northern pike. The station had research ponds and a lab with aquaria. It was closed at the same time as a research site at the Grayling Hatchery, during a budget crunch.