

# GRADUATE EXIT SEMINAR

JEREMY EVANS

## Fish Health and Water Quality in Small Agricultural Ponds in Rural Ohio



Privately owned ponds are common landscape features throughout Ohio and much of North America. Landowners managing their ponds perform a number of actions that can impact water quality, biodiversity, and fish health in these systems. Previous work often assesses one or two management actions at a time, however, there has been little work in assessing the effects of increasing levels of management actions. Additionally, pond dyes are frequently applied in small artificial ponds to help manage the growth of submerged vegetation, yet little work has been done to evaluate possible sub-lethal effects on fish. My thesis investigates the effect increasing levels of pond management has on water quality, biodiversity, and fish health. Furthermore, I investigated the effects of pond dye on the growth and health of juvenile Bluegill (*Lepomis macrochirus*) in outdoor mesocosms.

Advisor: Dr. Suzanne M. Gray

**FRIDAY, DECEMBER 10, 2021**  
**10:00 A.M.**

**Join the seminar via Zoom:**

<https://osu.zoom.us/j/92352840017?pwd=ck91QktpcHRVbUVhYU15bXViN2JCUT09>

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