



M.S. Graduate Research Assistantship
Aquaculture/Fisheries Center
University of Arkansas at Pine Bluff

Factors Affecting Fathead Minnow Egg Deposition in Earthen Ponds

Production technologies for fathead minnows have lagged behind those of the goldfish and golden shiner, and the vast majority of fish are still raised by the spawning-rearing pond method. Prior research at UAPB has demonstrated that an intensive system of egg collection and jar hatching is biologically feasible. However, efficient, large-scale egg collection methods are required for this new method to be economically feasible. The main components of the project are as follows. Some adjustments may be made in the final project as improvements in design become evident:

- 1) Influence of temperature, dissolved oxygen and turbidity on fathead egg deposition.
- 2) Evaluation of egg mimic effectiveness – mimic size and number
- 3) Evaluation of spawning substrate characteristics – effect of structure

Qualifications: B.S. in aquaculture, fisheries, or related field, minimum GPA of 3.0, and GRE score of 1,000+ (verbal + quantitative). The potential student must meet eligibility requirements for admission into the graduate program in the Department of Aquaculture and Fisheries, UAPB.

Stipend: (Year 1 \$17,800; Year 2+ \$18,800).

Closing Date: Applications will be considered until a candidate is selected. Descriptions of application procedures and necessary forms can be found at the UAPB Aquaculture/Fisheries Center website, <http://www.uaex.edu/aqfi/>.

Contact:

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E-MAIL APPLICATIONS WILL NOT BE ACCEPTED. PLEASE USE THE E-MAIL CONTACT FOR SPECIFIC QUESTIONS