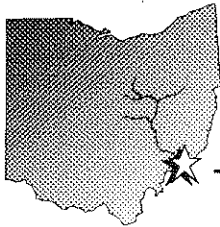


RICHARD J. NEVES



Watters
1992

Dr. G. Thomas Watters

171 Wells Street
Marietta, OH 45750-3461

614-373-9501

24 February 1992

Dr. Richard J. Neves
Virginia Cooperative Fishery Research Unit
Dept. Fisheries & Wildlife Sciences
Virginia Tech
Blacksburg, VA 24061

Dear Dr. Neves:

As you know, I am currently working on an annotated bibliography of unionid reproduction and propagation for the Ohio Department of Natural Resources. I have managed to assemble the majority of the literature, however, several important early papers have eluded me. Some of these are quite important to this bibliography, and are listed below.

If any are in your possession I would like to arrange some way of my seeing them. I would of course pay for any copying charges if photocopied, and a copy of the final report would be sent to you (which it will be anyway). All references in the report have been copied by me, and I would gladly send copies of any that you do not have. Any help would be greatly appreciated.

Sincerely,

G. Thomas Watters

- Forel, E. A. 1867 (?) Einige Beobachtungen über die Entwicklung des zelligen Muskelgewebes. Beiträge zur Entwicklungsgeschichte der Najaden. *Inaugural Dissertation. Würzburg*. 40 pp, 3 pls.
- Carus, G. G. 1832. Neue Untersuchungen über die Entwicklungsgeschichte unserer Flussmuschel. *Nova Acta Physico-medica Academiae Caesareae Leopoldino-Carolinae Naturae Curiosorum* 16:1-87.
- Harms, W. 1907. Die Entwicklungsgeschichte der Najaden und ihr Parasitismus. *Sitzungsberichte der Gesellschaft zur Beförderung der gesammten Naturwissenschaften zu Mahrburg*. 70-94.
- Leydig, F. 1866. Mittheilung über den parasitismus junger Unioniden an Fischen in Noll. *Tubingen, Inaugural Dissertation. Frankfort*. ? pp.
- Rathke, J. 1797. Om Dammuslinger. *Naturhistorie Selskabets skrifter (Kjobenhaun)* 4:139-179.

171 Wells Street
Marietta, OH 45750-3461

5 December 1991

Dear Colleague:

I have been contracted by the Ohio Department of Natural Resources to assemble an annotated bibliography and status report on the propagation of unionids. The term 'propagation' has been expanded to encompass all aspects of mussel culturing in either natural or artificial environments, including identification of hosts, life histories, transplanting of populations, and rearing methods.

The bibliography will concentrate on recent literature, and because of the period of the project will undoubtedly miss some citations. More thorough compilations are being made by other individuals. However, both ODNR and myself feel the bibliography will be a valuable tool to any person interested in this area of study.

The status report will be compiled from questionnaires sent to workers in this field. Results will summarize who is working on what, and where. We believe this will be an asset to all, not only in enlisting help and collaboration, but in reducing duplication of efforts. To this end I would appreciate you taking a few minutes to complete and return the attached questionnaire. Your name has been taken from the member list of The American Malacological Union based upon your listed area of interest. It may be that some recipients have no active research in this field. Please disregard this questionnaire if so. All parties who return the questionnaire will be listed (unless they choose otherwise). Respondents will also be sent a final copy of the study when available.

I also would appreciate any reprints dealing with your research. Please send materials to the above address. Thank you for your cooperation.

Sincerely,



G. Thomas Watters, PhD

QUESTIONNAIRE
Propagation of Unionids

A. Type of study. Please check all areas of study in which you, or your laboratory, are engaged:

rearing on hosts in the laboratory to transformation

on potential hosts specifically for host identification and life history studies

on known hosts for toxicological, cytological, genetic, or other *non life history* studies

What kind of study? toxicology

on known hosts for life history studies

other _____

rearing on hosts in enclosures in nature to transformation

on potential hosts specifically for host identification and life history studies

on known hosts for toxicological, cytological, genetic, or other *non life history* studies

What kind of study? _____

on known hosts for life history studies

other _____

rearing in artificial medium to transformation

rearing in laboratory post transformation

for life history studies

for transplanting

for commercial use (pearls, etc.)

for toxicological, cytological, genetic, or other *non life history* studies

What kind of study? _____

other for development of propagation techniques

rearing in nature post transformation

for life history studies

for transplanting

for commercial use (pearls, etc.)

__ for toxicological, cytological, genetic, or other *non life history* studies

What kind of study? _____

other _____

B. Geographical area. Please indicate if your studies concern the unionids of a particular drainage or state.

__ Studies not limited to unionids from a particular drainage or state.

__ Drainage. Please state: Upper Tennessee River

__ State. Please state: VA, TN

C. Taxa. Please list taxa of unionids with which you are working.

Villosa iris

Fusconia cuneolus

Medionidus couradicus

Fusconia cor

Actinonaias pectorosa

Pleurobema oviforme

D. Yourself. (Optional). Please check all statements that apply to you or your laboratory.

Federal Government Agency FWS

__ Educational Institution

__ State Government Agency (DNR's, etc.)

__ Consulting Firm

__ Industry (AEP, etc.)

__ Private Research Firm

__ Private Commercial Firm

other Coop. Research Unit

VPI+SU
US FWS
VOGIF

__ I do *not* wish to be listed in the report

__ List phone number. Phone: (703) 231-5920

Thank you for responding to this questionnaire. Please return it and available reprints to:

Dr. G. Thomas Watters
171 Wells Street
Marietta, OH 45750-3461

If you have any questions please call 614-373-9501.