

The Age and Growth of the Freshwater Mussel,
Lampsilis radiata luteola (Lamarck)

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Age and growth analyses of height, weight, length and width of shells were conducted on a population of *Lampsilis radiata luteola* from a northeastern Kentucky stream. The population was analyzed by dividing the

stream into upper, middle and lower sectors. These stream sectors were compared by evaluating the mean, range, standard deviation and standard error of the mean of the various growth parameters. The overall size of the mussels in the stream sectors was also compared to food availability (plankton) with respect to age. Analyses of the entire combined population were conducted for similar growth parameters. It was concluded that *L. radiata luteola* obtained the majority of its shell length before the eighth year, while greater increments in weight occurred after the eighth year. It was further concluded that the overall growth, particularly weight, of the mussel was dependent upon food availability.

SYMPOSIA

41ST ANNUAL MEETING, 1980

I. Teaching Introductory Biology Courses — "Things That Work for Us."

Presiding: WILLIAM J. KOCH, University of North Carolina.

W. J. KOCH. Introduction.

W. J. KOCH AND E. R. WATSON. A Way to Meet the Peak Need of Large Classes. (Abstract No. 126).

W. J. ADAMS AND J. R. MEYER. The Use of Diagnostic Prescriptive Testing in an Introductory Biology Course. (Abstract No. 3).

T. L. MELLICHAMP. Why have a Speckled Toad-filly in Your Greenhouse: Evaluating Living Collections for Teaching Botany and Horticulture. (Abstract No. 159).

J. R. MASSEY. Some Games Systematists Play, 1. (Abstract No. 145).

J. F. MATTHEWS. Some Games Systematists Play, 2. (Abstract No. 145).

II. Endangered Plants, the Second Step.

Presiding: GAIL BAKER, Endangered Species Specialist, USFWS, Jacksonville.

GAIL BAKER. The Endangered and Threatened Plant Program of the U.S. Fish and Wildlife Service: 1975-1980.

LAVERNE SMITH, Office of Endangered Species, USFWS, Washington. The Endangered Species Act, the Listing Process and Provisions Relating to Plants.

RANDY LONG, USF, Atlanta. The Status and Recovery of Endangered and Threatened Plants on Southeastern National Forests.

KEN STANSELL AND ANDREW ROBINSON, USFWS, Atlanta. State Cooperative Agreements for Plants Under the Endangered Species Act, Requirements and Provisions.

MARY ANN NEVILLE-YOUNG, Georgia Game and Fish Division, Atlanta. Plant Management Programs in Georgia.

PAUL SOMERS, Tennessee Natural Heritage Program, Nashville. The Tennessee State Natural Heritage Program and Endangered Plants.

JAMES MASSEY, University of North Carolina. Conducting Plant Status Inventories.

RICHARD WUNDERLIN, University of South Florida. Problems of Determining Endangerment in Plants.

GARY TUCKER, Arkansas Tech University. Plant Status Surveys in the Southeast.

WAYNE MILSTEAD, Office of Endangered Species, USFWS, Washington. Current Status of Endangered Species Recovery Efforts by the U.S. Fish and Wildlife Service.

III. South Florida Ecosystems.

Presiding: MICHAEL J. DUEVER, Corkscrew Swamp Sanctuary.

M. J. DUEVER. Introduction to Area and Its Climate.

JOHN F. MELDER, University of Miami. Geology and Soils.

BENJAMIN MCPHERSON, U.S. Geological Survey. Hydrology.

TAYLOR R. ALEXANDER, University of Miami. Plant Communities.

GARY N. J. YAE, Archbold Biological Station. Animals