

INDIANA BIOLOGICAL SURVEY

EARLY LIFE STAGES OF FISHES PUBLICATIONS

These publications provide a series of resource books for biologists that are interested in the early life history of fishes. These documents include a variety of publications including Proceedings of Larval Fish conferences, description of brown bullheads, as well as, preliminary resources for Tennessee River drainage fishes. The brown bullhead document is an excellent resource for classroom use since it shows embryological development and important morphological attributes of larval development. Three purposes are served by these works: they provide historical perspectives in the advancement of larval fish taxonomy; they provide early life information for select freshwater species, and these documents will be important to those interested in assimilating information for research.

Proceedings of the Second Larval Fish Conference, Knoxville, Tennessee

Introduction/Distinguishing Characteristics and Pictorial Guide to the Families of Fishes in the Ohio River Drainage/ ACIPENSERIDAE: *Acipenser fulvescens*; *Scaphirhynchus platyrhynchus* / POLYODONTIDAE: *Polyodon spathula* / LEPISOSTEIDAE: *Atractosteus spatula*; *Lepisosteus oculatus*; *Lepisosteus osseus*; *Lepisosteus platostomus* / AMIIDAE: *Amia calva*/ ANGUILLIDAE: *Anguilla rostrata* / CLUPEIDAE: *Alosa chrysochloris*; *Alosa pseudoharengus*; *Dorosoma cepedianum*; *Dorosoma petenense* / HIODONTIDAE: *Hiodon alosoides*; *Hiodon tergisus* / SALMONIDAE: *Oncorhynchus mykiss*; *Salmo trutta*; *Salvelinus fontinalis* / OSMERIDAE: *Osmerus mordax* / UMBRIDAE: *Umbra limi* / ESOCIDAE: *Esox americanus vermiculatus*; *Esox lucius*; *Esox masquinongy*; *Esox niger*.

19xx / softbound / xxx pages / \$ 40.00

Proceedings of the Fifth Larval Fish Conference, Baton Rouge, Louisiana

Introduction/Distinguishing Characteristics and Pictorial Guide to the Families of Fishes in the Ohio River Drainage/ ACIPENSERIDAE: *Acipenser fulvescens*; *Scaphirhynchus platyrhynchus* / POLYODONTIDAE: *Polyodon spathula* / LEPISOSTEIDAE: *Atractosteus spatula*; *Lepisosteus oculatus*; *Lepisosteus osseus*; *Lepisosteus platostomus* / AMIIDAE: *Amia calva*/ ANGUILLIDAE: *Anguilla rostrata* / CLUPEIDAE: *Alosa chrysochloris*; *Alosa pseudoharengus*; *Dorosoma cepedianum*; *Dorosoma petenense* / HIODONTIDAE: *Hiodon alosoides*; *Hiodon tergisus* / SALMONIDAE: *Oncorhynchus mykiss*; *Salmo trutta*; *Salvelinus fontinalis* / OSMERIDAE: *Osmerus mordax* / UMBRIDAE: *Umbra limi* / ESOCIDAE: *Esox americanus vermiculatus*; *Esox lucius*; *Esox masquinongy*; *Esox niger*.

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Stages in Development of *Ictalurus nebulosus*

Introduction/Distinguishing Characteristics and Pictorial Guide to the Families of Fishes in the Ohio River Drainage/ Taxonomic Diagnosis: Provisional Key; Intergeneric and Interfamily Diagnosis; Intrageneric Diagnosis / Genus *Carpionotus*: *Carpionotus carpio*; *Carpionotus cyprinus*; *Carpionotus velifer* / Genus *Catostomus*: *Catostomus catostomus*; *Catostomus commersoni* / Genus *Cycleptus*: *Cycleptus elongatus* / Genus *Erimyzon*: *Erimyzon oblongus*; *Erimyzon sucetta* / Genus *Hypentelium*: *Hypentelium nigricans* / Genus *Ictiobus*: *Ictiobus bubalus*; *Ictiobus cyprinellus*; *Ictiobus niger* / Genus *Minytrema*: *Minytrema melanops* / Genus *Moxostoma*: *Moxostoma anisurum*; *Moxostoma atripinne*; *Moxostoma carinatum*; *Moxostoma duquesnei*; *Moxostoma erythrurum*; *Moxostoma macrolepidotum*; *Moxostoma valenciennesi*.

1962/ hardbound / xxx pages / \$24.95

Preliminary Guide to the Early Life History of Fishes in the Tennessee River Drainage

Introduction/Distinguishing Characteristics and Pictorial Guide to the Families of Fishes in the Ohio River Drainage/ ACIPENSERIDAE: *Acipenser fulvescens*; *Scaphirhynchus platyrhynchus* / POLYODONTIDAE: *Polyodon spathula* / LEPISOSTEIDAE: *Atractosteus spatula*; *Lepisosteus oculatus*; *Lepisosteus osseus*; *Lepisosteus platostomus* / AMIIDAE: *Amia calva*/ ANGUILLIDAE: *Anguilla rostrata* / CLUPEIDAE: *Alosa chrysochloris*; *Alosa pseudoharengus*; *Dorosoma cepedianum*; *Dorosoma petenense* / HIODONTIDAE: *Hiodon alosoides*; *Hiodon tergisus* / SALMONIDAE: *Oncorhynchus mykiss*; *Salmo trutta*; *Salvelinus fontinalis* / OSMERIDAE: *Osmerus mordax* / UMBRIDAE: *Umbra limi* / ESOCIDAE: *Esox americanus vermiculatus*; *Esox lucius*; *Esox masquinongy*; *Esox niger*.

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