

Parasites of the Gizzard Shad, *DOROSOMA CEPEDIANUM*  
LeSuer, from Two Southern Illinois Lakes

Robert L. Price  
Department of Zoology, Southern Illinois University  
at Carbondale  
Carbondale, Illinois 62901

and

Reid Jilek  
Department of Zoology and Center for Lake Erie Area Research  
The Ohio State University  
Columbus, Ohio 43210

**ABSTRACT**

A total of 2849 gizzard shad, *Dorosoma cepedianum*, from two southern Illinois lakes, Crab Orchard and Carlyle, were examined for parasites. Nine different genera were recovered of which *Myxobolus* is reported for the first time from this host and *Pseudanthocotyloides banghami*, *Clinostomum*, *Proteocephalus*, and *Argulus* are reported for the first time from the gizzard shad of Illinois.

During surveys of 1312 gizzard shad, *Dorosoma cepedianum*, from Crab Orchard Lake, Williamson County, Illinois, for *Gracilisentis gracilisentis* and 1537 gizzard shad from Carlyle Lake, Clinton County, Illinois, for *Plistophora cepedianae* records were kept on the occurrence of other species of parasites. Nine different genera were found of which *Myxobolus* is reported for the first time from this host and *Pseudanthocotyloides banghami*, *Clinostomum*, *Proteocephalus*, and *Argulus* are reported for the first time from the gizzard shad of Illinois (Table 1).

*Myxobolus* cysts 2 to 3 mm in size were found in the small intestine of 2 fish from Carlyle Lake. Spore shape and size were similar to that of *M. okobojiensis* Otto and Jahn, 1943, but both fish had been in 10% formalin for several months before examination making specific identification impossible at this time.

The following specimens have been entered in the USNM Helminthological Collection: *Gracilisentis gracilisentis* (74697); *Tanaorhampus longirostris* (74698); *Pseudanthocotyloides banghami* (74699); *Clinostomum* sp. (75295); *Proteocephalus* sp. (75294); *Bothriocephalus cuspidatus* (73743); and *Argulus* sp. (75296).

Table 1. Parasites of gizzard shad, *Dorosoma cepedianum*, from Crab Orchard Lake, Williamson County, and Carlyle Lake, Clinton County, Illinois.

Parasites	Crab Orchard Lake (1312 specimens)	Carlyle Lake (1537 specimens)
Protozoa		
<i>Myxobolus</i> sp.	—	2
<i>Plistophora cepedianae</i>	6 +	654
Trematoda		
<i>Pseudanthocotyloides banghami</i>	22	—
* <i>Clinostomum</i> sp.	7	—

Cestoda		
* <i>Proteocephalus</i> sp.	2	3
<i>Bothriocephalus cuspidatus</i>	1	2
Acanthocephala		
<i>Gracilisentis gracilisentis</i>	733	—
<i>Tanaorhampus longirostris</i>	117	15
Crustacea		
<i>Argulus</i> sp.	7	—

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\*Larval stages

+ During the survey *Plistophora cepedianae* was not found in Crab Orchard Lake. However, 6 of 9 fish were found infected in March of 1979.