

Research Note

**Update on the Distribution of the Invasive Asian Fish Tapeworm,
Bothriocephalus acheilognathi, in the U.S. and Canada**

ANINDO CHOUDHURY,^{1,5} ELIZABETH CHARIPAR,¹ PATRICK NELSON,²
JAMES R. HODGSON,¹ SCOTT BONAR,³ AND REBECCA A. COLE⁴

¹ Division of Natural Sciences, St. Norbert College, 100 Grant Street, DePere, Wisconsin 54115, U.S.A.
(e-mail: anindo.choudhury@snc.edu),

² Department of Zoology, University of Manitoba, Winnipeg, Canada, MB R3T 2N2,

³ Arizona Cooperative Fish and Wildlife Research Unit, U.S. Geological Survey, 104 Biological Sciences East,
University of Arizona, Tucson, Arizona 85721, U.S.A. and

⁴ USGS National Wildlife Health Center, 6006 Schroeder Road, Madison, Wisconsin 53711, U.S.A.

ABSTRACT: The documented range of the invasive and potentially pathogenic Asian fish tapeworm, *Bothriocephalus acheilognathi* Yamaguti, 1934 in the United States and Canada is updated based on examination of museum depositions and original field collections. Gravid specimens of *B. acheilognathi* were collected from the fathead minnow *Pimephales promelas* Rafinesque in Peter Lake, at the University of Notre Dame Environmental Research Center (UNDERC) Land o' Lakes, Wisconsin. A single immature specimen of the parasite was collected from a white bass, *Morone chrysops* (Rafinesque) in Lake Winnipeg, Manitoba, Canada. This is the first record of *B. acheilognathi* in Canada and extends its northern range in the interior of the continent by more than 600 miles over the last documented record. The previous record of *B. acheilognathi* in Canada, from the northern pikeminnow, *Ptychocheilus oregonensis* in British Columbia, is a misidentification of *Eubothrium tulipai*. Examination of selected records of intestinal cestodes from native cyprinids, in the Harold W. Manter Laboratory of Parasitology (HWML, n = 9) collection and in the United States National Parasite Collection (USNPC, n=8), provided evidence of the parasite in Nebraska and possibly in the upper Colorado River basin. Introductions into Wisconsin-Michigan were due to the stocking of golden shiners, whereas the source of the introduction in Manitoba remains unknown.

KEY WORDS: Asian fish tapeworm, *Bothriocephalus acheilognathi*, Canada, U.S.A, Wisconsin, Manitoba, fish, parasites, Cestoda, invasive species.