

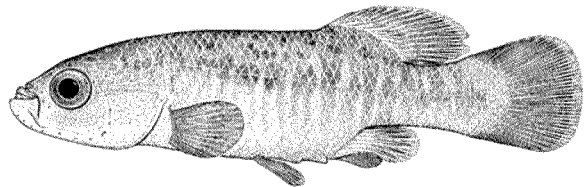
Threatened fishes of the world: *Allotoca goslinei* Smith and Miller, 1987 (Goodeidae)

Matthew R. Helmus · Lauren B. Allen ·
Omar Dominguez-Dominguez ·
Edmundo Díaz Pardo · Pablo Gesundheit ·
John Lyons · Norman Mercado Silva

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Common Names: banded allotoca, tiro rayado (Sp.).
Conservation status: Endangered (Williams et al. 1989).
Identification: ML 50 mm, distinguished from congeners by 15 narrow vertical bars (Smith and Miller 1987). Illustration by S. Fink.
Distribution: Two localities on Arroyo Potrero Grande, Ameca tributary, Jalisco, Mexico.
Abundance: Likely extinct in nature: In 2000, *A. goslinei* was the dominant fish at the type locality (ca. 75% proportional abundance). We extensively sampled the tributary in 2005–2006 and found none.
Habitat and ecology: Associated with plants in shallow pools; likely feeds on small



arthropods based on the diet of its sister species (Dominguez-Dominguez et al. 2002; Doadrio and Dominguez-Dominguez 2004; Webb et al. 2004).
Cohabitates with natives: *Allodontichthys polylepis*, *Poeciliopsis infans*, *Scartomyzon austrinus*, *Ilyodon furcidens* (Wischnath 1993).
Reproduction: Live-bearer; sexual dimorphism in fin placement and coloration (Smith and Miller 1987). In captivity, sexual maturity reached within 3 months; broods of

M. R. Helmus (✉) · L. B. Allen
Department of Zoology, University of Wisconsin,
Madison, WI 53706, USA
e-mail: mrhasmus@wisc.edu

O. Dominguez-Dominguez
Laboratorio de Biología Acuática, Facultad de Biología,
Universidad Michoacana de San Nicolás de Hidalgo,
Morelia, Michoacán 58088, México

E. Díaz Pardo
Facultad de Ciencias Naturales,
Universidad Autónoma de Querétaro,
Querétaro 76000, México

P. Gesundheit
Departamento de Ecología Evolutiva, Instituto de Ecología,
Universidad Nacional Autónoma de México,
A.P. 70–275,
04510 México, D.F., México

J. Lyons
University of Wisconsin Zoological Museum,,
250 North Mills St,
Madison, WI 53706, USA

N. M. Silva
Department of Biology,
University of New Mexico,
Albuquerque, NM 87131, USA

15–20 (Joel Healy personal communication). *Threats*: *Xiphophorus hellerii* invaded the type locality between 2000 and 2004. As its abundance increased between 2000 and 2006, *A. goslinei* abundance decreased ($r=-0.94$, $n=4$). *X. hellerii* is now found throughout the stream. It may have competitively displaced *A. goslinei* since stream habitat quality did not noticeably change (our unpublished data; personal communication Ivan Dibble); both species likely compete for prey (Arthington 1989); are similar size/morphology (Miller et al. 2005). *Conservation action*: The Universidad Michoacana de San Nicolás de Hidalgo, the Acuario Nacional de Peces Mexicanos del Zoológico de Mexquitic, and U.S./European aquaria hobbyists should maintain their captive populations (HALCP 1998). *Conservation recommendation*: The Mexican government (SEMARNAT 2002) and IUCN (IUCN 2007) should designate it as endangered.

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