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## Presence of the Cichlid Fish *Cichlasoma Managuense* Gunther in Lake Xiloá, Nicaragua

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PRESENCE OF THE CICHLID FISH *CICHLASOMA MANAGUENSE* GÜNTHER IN LAKE XILOÁ, NICARAGUA.—Villa (1968) included *C. managuense* in the fauna of Lake Xiloá as a "recently introduced" species since the Ministerio de Agricultura y Ganadería (Nicaragua) had introduced several hundred young individuals of this species from Lake Managua, hatched at the Estación Experimental "La Calera." Apparently officials of the Ministerio did not determine whether or not *C. managuense* occurred in Lake Xiloá prior to its introduction.

My earliest collection of Xiloá fishes containing *C. managuense* (now deposited at the Museo de Zoología, Universidad de Costa Rica) coincided with the Ministerio's introduction, but their date was vague and I could not determine if my collection contained native or introduced specimens of *C. managuense*. A paper by Meek (1907) resolved the situation. Meek reported several Mexican and Central American collections among which was one sent from Nicaragua by Dioclesiano Chaves, late director of the Museo Nacional. Chaves collected the specimens in lakes Managua, Asososca, and "Lago de Guila." Of the latter Meek stated (p. 152) that "is in the Chiltepe Peninsula, its water is slightly saline." Only two lakes are in the peninsula, Apoyeque and Xiloá (or Jiloá), the latter being almost certainly Meek's "Lago de Guila." I know of no

Nicaraguan lake, other than Xiloá, whose name approaches that of "Guila." Furthermore, Meek's mentioning that the waters of Guila are "slightly saline," and its location in the Chiltepe Peninsula, rules out the possibility of any other Nicaraguan lake. Thus "Lago de Guila" can only be associated with Lake Xiloá.

Meek reported (p. 152) a 300 mm specimen of *C. managuense* (FMNH 6211, 293 mm TL) from Lake Xiloá (as "Lago de Guila"), and leaves no question as to its presence. *Cichlasoma citrinellum* (Günther) and *Philypnus* (= *Gobiomorus*) *dormitor* (Lacépède) were also noted in Lake Xiloá. Villa (1968) considered the presence of *Dorosoma chavesi* Meek in Lake Xiloá as tenuous, it was not present in Chaves' collection.

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