University of Nebraska - Lincoln Digital Commons@University of Nebraska - Lincoln

Investigations of the Ichthyofauna of Nicaraguan Lakes

Papers in the Biological Sciences

1-1-1976

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

Jime Villa Cornell University

Follow this and additional works at: http://digitalcommons.unl.edu/ichthynicar



Part of the <u>Aquaculture and Fisheries Commons</u>

Villa, Jime, "Presence of the Cichlid Fish Cichlasoma Managuense Gunther in Lake Xiloá, Nicaragua" (1976). Investigations of the Ichthyofauna of Nicaraguan Lakes. Paper 27. http://digitalcommons.unl.edu/ichthynicar/27

This Article is brought to you for free and open access by the Papers in the Biological Sciences at DigitalCommons@University of Nebraska - Lincoln. It has been accepted for inclusion in Investigations of the Ichthyofauna of Nicaraguan Lakes by an authorized administrator of DigitalCommons@University of Nebraska - Lincoln.

Made in United States of America Reprinted from COPEIA, 1971, No. 1, March 8 p. 186

COPEIA, 1971, NO. 1

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

186

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.

I wish to thank Loren P. Woods, Field Museum of Natural History (FMNH) for his data on the *C. managuense* specimen and William W. Milstead, University of Missouri-Kansas City, for reading the manuscript.

LITERATURE CITED

MEEK, S. E. 1907. Notes on fresh-water fishes from Mexico and Central America. Field Columbian Mus. Pub., Zool. Ser. 7:134–157. VILLA, J. 1968. Una teoría sobre el origen de los peces de Xiloá. Rev. Univ. Cent. Amer. 1(4):202–214.

JAIME VILLA, Department of Biology, University of Missouri, Kansas City, Missouri 64110