

Clave: M-08

MANAGEMENT OF INLAND AQUATIC RESOURCES IN TABASCO AND CHIAPAS STATES, MEXICO

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Temática: Manejo de Recursos Naturales

Tabasco and Chiapas States count with 40% of hydrological resources to Mexico. The lowland of Tabasco sustain handmade fishing which actually show overdraw in some drainages basin and inland and coastal laggons. Development of hydrocarbons extraction in the lowland and destruction of humid forest were provoked increase of erosion process, industrial pollution and eutrophication levels in inland aquatic ecosystems with falling in the fishing yield and agriculture activities. Inland Aquatic Ecosystems Management Program of Tabasco and Chiapas States in the southwest of Mexico (IAEMP-SM) was purposed from the sustainable management of aquatic resources localized in the humid tropic lowland to Tabasco and Chiapas States. This program initially was focused from the resources aquatic inventory with application to GIS methodology and the evaluation of fish yield. Actuality, is orient toward the application to induction reproductive of native species from your repopulating in aquatic ecosystems and enhance the fish yield. Both research efforts were implemented with random sampling of physical, chemical and biological parameters, which was permitted know the limnological properties to the more important aquatic ecosystems localized in Tabasco and Chiapas States and propose your management sustainable. The inventory of aquatic resources in Tabasco State indicate the presence of 2,168 inland laggons distributed in 484 of permanent type (54,344.5 ha) and 1,684 temporary type (18,682.8 ha). The inventory of aquatic resources in Catazaja humedal of Chiapas State indicate the presence to others 183 inland laggons distributed in 21 of permanent type (14,475 ha) and 162 temporary type (2,494.25 ha). Two cichlid natives (*Cichlasoma synspilum* and *C. urophthalmus*) were reported as predominant in the fishing captures and jointly with *Lepisosteus tropicus* were recommended from the repopulating of aquatic ecosystems in this tropical area.

Key Words: Aquatic ecosystem management; resources inventories; humid tropic.

LITERATURE

Rodríguez Rodríguez, E., M. A. Benítez Mandujano and I. Santiago Jiménez. 1998. Inland Aquatic Ecosystem Management Program of Tabasco State. IAEMP-ST Technical Report. Bioprocess Laboratory, DACB-UJAT. 112 p. (In Spanish).

Rodríguez Rodríguez, E. and L. Avalos Torres. 2000. Yield fishing models from inland laggons of Tabasco State. Proceedings of VII Ichthyology National Congress, Mexico, D.F. 21-24 November of 2000. 32-33 p. (in Spanish).

Rodríguez Rodríguez, E. 2002. The inland laggons of Tabasco State. Juarez Autonomy University of Tabasco State. 265 pp. (In Spanish).