

Title: **Optimal Rotation Time for the Polyculture of Tilapia Nilótica and White Shrimp in Freshwater**

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Abstract: It was obtained the optimal rotation time for the polyculture of tilapia nilótica and white shrimp in freshwater, with a bioeconómico model. Data for modelling were extracted from an experiment conducted in CINVESTAV-IPN, unit Mérida, during the summer of 2008. The stocking densities studied were 32.2 tilapia/m³ and 33.7 and 50 shrimp/m². For simulation were considered the technical and economic characteristics of tilapia culture in Yucatán Mexico. Randomness was included in the two most influential variables of the system, in order to obtain more attached to reality results. The optimal rotation time strategy was longer than the commonly used by the tilapia farmers.