

Analysis of Fertilizer Effect in the Tilapia Growth of Mozambique (Oreochromis mossambicus)

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Abstract : This paper analyses the effect of fertilizer (organic and inorganic) in the growth of tilapia. An experiment was implemented in the Aquapesca Company of Mozambique; there were considered four different treatments. Each type of fertilizer was applied in two of these treatments; a feed was supplied to the third treatment, and the fourth was taken as control. The weight and length of the tilapia were used as the growth parameters, and to measure the water quality, the physical-chemical parameters were registered. The results show that the weight and length were different for tilapias cultivated in different treatments. These differences were evidenced mainly by organic and feed treatments, where there was the largest and smallest value of these parameters, respectively. In order to prove that these differences were caused only by applied treatment without interference for the aquatic environment, a Fisher discriminant analysis was applied, which confirmed that the treatments were exposed to the same environment condition.

Keywords : fertilizer, tilapia, growth, statistical methods

Conference Title : ICAEASAF 2018 : International Conference on Agriculture Engineering, Animal Science, Aquaculture and Fisheries

Conference Location : Barcelona, Spain

Conference Dates : February 27-28, 2018