

Evaluation of Growth Performance and Survival Rate of African Catfish (Clarias gariepinus) Fed with Graded Levels of Egg Shell Substituted Ration

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Abstract : An eight (8) weeks study was carried out on Four hundred and five (405) African catfish (*Clarias gariepinus*) juveniles to examine the effect of graded levels of egg shell on their growth performance and survival rates. They were acclimatized for two (2) weeks after which they were weighed and allotted into five dietary treatments of three (3) replicates each and 27 fishes per replicate making a total number of eighty-one (81) fishes per treatment. The dietary treatments contained 0, 25, 50, 75 and 100(%) egg shell inclusion from treatment one to treatment five respectively. Parameter on daily feed intake, weekly weight gain, and daily mortalities were recorded. The result of the experiment indicated that treatment four (4) with 75% inclusion of egg shell was the best in terms of weight gain and survival rates and was significantly different ($P < 0.05$) when compared with the other treatments. For Catfish farming to remain viable in the nearest future, lower feed cost and increased profit are required; it is therefore recommended that diets of African catfish (*Clarias gariepinus*) be supplemented with well processed egg shell at 75% level of inclusion to achieve this.

Keywords : African catfish, egg shell, performance, performance, survival rate, weight gain

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