

ABSTRACT

THE SUBSTITUTION OF FISH MEAL BY USING ANCOVIES HEAD WASTE TO INCREASE THE GOWTH OF TILAPIA.

By

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One of the important factors in tilapia cultivation is the availability of sufficient feed. Tilapia (*Oreochromis niloticus*) is a kind of bream which has the high economy value and is cultivated in large number. The cultivation often has problem in term of the high feed price since the feed material such the fish meal is still imported. To solve this problem, there is an alternative. One alternative is that by utilizing the anchovy head as the feed material in making the feed-made. This research is aimed to obtain a good feed formulation for the tilapia (*Oreochromis niloticus*) growth. This research used the completed random design for 5 times treatment and three times experiments; A (fish meal 100%), B (anchovy head fish meal 25% and fish meal 75%), C (anchovy head fish meal 50% and fish meal 50%), D (anchovy head fish meal 75% and fish meal 25%) and E (anchovy head fish meal 100%). The data obtained were analyzed by ANOVA and continued with *BNT* test. The parameters observed were the growth, protein retention, *Feed Conversion Ratio* (FCR) and *Survival Rate* (SR). The parameters observed have showed that the use of anchovy head fish meal in the feed-made in the E treatment gave the real influence rather than A, B, C, and D with the result of the research obtained the growth and high retention, but the value of FCR is low. It proves that the anchovy head fish meal is able to substitute the fish meal.

Key word: tilapia fish, small fish, waste disposal, feed.