ABSTRACT

THE INCREASING THE ECONOMIC VALUE OF THE ANCHOVIES HEAD WASTE AS RAW MATERIAL OF MASAMO CATFISH (Clarias sp.)

By

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Masamo catfish (Clarias sp.) was one of fresh water are commonly cultivated in Indonesia, depend on it highly grown in a controlled system, disease resistant, and a high tolerance in dispersive environmental conditions. However fish farmers have high meal prices because raw materials such as fish meal are still imports. It was necessary to find an alternative local raw materials that can replace fish meal head anchovy meal. This study aims to obtain fish meal formulations of fish meal and head anchovy meal and determine the effect of substitution on the growth Masamo catfish. The method used is an experimental method with a completely randomised design of 5 treatment and 3 replication. The method used were A, (100% fish meal), B (head anchovy meal 25% and 75% meal), C (head anchovy meal 50% and fish meal 50% ), D (head anchovy meal 75% and fish meal 25%), E (head anchovy meal100%). Analysis of data using (ANOVA) and if there is a difference in treatment then using Least Significant Difference (LSD) test. Parameters observed were growth, Feed Conversion Ratio (FCR), Protein Retention (RP), and Survival Rate (SR). Growth parameters and protein retention were observed indicating that the use of head anchovy meal in feed was influential while FCR and SR parameters do not provide a real effect. The result showed that formulation E influence significantly different P (0.05) on growth of masamo catfish. The measurement of water quality parameters during the study in optimum condition.

Keywords: anchovy heads, by produck, feed, Masamo catfish