

ABSTRACT

THE UTILIZATION OF BOILING WASTE OF ANCHOVIES (*Stolephorus sp.*) AS FEED OF TILAPIA (*Oreochromis niloticus*)

By

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Tilapia (*Oreochromis niloticus*) is widely cultivated in Indonesia and it has an high economic value. One important factor in tilapia farming is availability of feed in sufficient quantity. One of problem in culture is the high price of commercial feed which caused of high price of fish meal. It's need a local raw materials such as the boiling waste of anchovies production which has great potential in Lampung. The aims of this study to investigate the characteristics of anchovies waste flour as raw material of feed, and to monitoring growth of tilapia. Using a completely randomized design with 4 treatments and 3 replications; A (80% fish meal and flour waste of anchovies 20%), B (60% fish meal and flour waste of anchovies 40%), C (40% fish meal and waste flour of anchovies 60%), D (20% fish meal and flour waste anchovies 80%). The effectivity of feed was measured by quality of feed, specific growth, protein retention, feed conversion ratio (FCR), and the survival rate (SR). Treatment C is the best treatment which has high growth and retention of protein, whereas the FCR value is low. The results of this study indicate that the boiling waste flour of anchovies is able to replace fish meal as feed ingredients of tilapia.

Keywords: anchovies, boiling waste, feed, tilapia