

## **ABSTRACT**

### **THE EFFECT OF PARTIAL SUBSTITUTION OF FISH MEAL TO BONE MEAL ON CATFISH GROWTH (*Clarias gariepenus*)**

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Bone meal (TI) is the main ingredient in the manufacture of feed. But availability and high price of fish meal feed is a particular problem for the catfish farmers. Bone meal is able to substitute partially the use of fish meal as feed. This research was conducted to find out the proper proportion of bone meal in the fish meal for feed and to find out the extent of bone meal feed influence to Sangkurang catfish growth performance. Tested catfish was raised in aquariums sized 60x40x40 cm and each aquarium had 15 catfishes and each of them had 1 gram weight. This research was conducted for 50 days in laboratory of Aquaculture Department in Faculty of Agriculture of Lampung University. This research used completely randomized design with 5 treatments and 3 repetitions. They were A(40,65% TI + 0% TT); B(36,65% TI + 4% TT); C(32,65% TI + 8% TT); D(28,65% TI + 12% TT); E(24,65% TI + 16 TT). Data were analyzed with ANOVA ( $p < 0.05$ ) and then followed with Duncan test. The result showed that a proportion between fish and bone meal feed with partial substitution at C (80.32% TI + 19.68%) was able to provide 12.04 gr absolute highest weight growth for Sangkuriang catfish and 1.42 FCR.

Keywords: Absolute weight growth, bone meal, fish meal, Sangkuriang catfish.