

**THE UTILIZATION OF MANGROVE (*Rizhopora* sp) LEAF MEAL AS  
ALTERNATIVE INGREDIENT FEED TO GOURAMI  
(*Osphronemus gouramy*) FISH GROWTH**

**JULIANA**

Management Agro-Industry Studies Program  
Department of Agribusiness Management

**ABSTRACT**

The aim of this study was to study the growth of gourami (*Osphronemus gouramy*) fish given feed formulated using mangrove leaf. The method this study was experiment assigned in completely randomized design (CRD). The treatments were four levels of mangroves leaf 0 % (P0), 5 % (P1), 10% (P2), 15% (P3) and each treatment is repeated 3 times. The parameters Specific Growth Rate (SGR) and Feed Conversion Ratio (FCR) as the main parameter. The result SGR P0 = 0,544 %/day, P1 = 0,491 %/day, P2 = 0,549 %/day, P3 = 0,463 %/day and the result FCR P0 = 5,74 g, P1 = 6,40 g, P2 = 5,58 g, P3 = 6,52 g. The results of ANOVA showed that the use of mangrove leaf meal in feed had no significant effect ( $F_{\text{calc}} < F_{\text{table}} 5\%$ ) on SGR and FCR. While also measuring the survival rate (SR) and water quality that results were also no significant effect.

Keywords: *gourami fish, mangrove leaf meal, growth, feed conversation, survival*