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The improvement of intensive culture system technology on Mud crab using different dosage of artificial feeds on lipid source of the growth and survival rate

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Mud crab (*Scylla paramamosain*) is one of important export commodity and valuable edible crabs in the market. The feeding technology implemented by farmer was remained simple. One of those principles was by implementing proper feeding of different dosage and lipid source on the growth and survival rate. The objectives of the research were the effect of different dosage source of lipid oil on the growth and survival rate of Mud crab (*S. paramamosain*) under technology of battery system conditions. The research used 180 mature mud crabs (*S. paramamosain*) and plastic cage with 30×30×20 cm measurement captured in the Petebon waters. The initial weight of those crabs was 143.3±2.5 g. The experiment used Completely Random Design as follows treatment were applied with 4 treatments and 3 replications those were 1% feed biomass per day (A), 3% feed biomass per day (B), 5% feed biomass per day (C) and 7% feed biomass per day (D). The feeding was conducted twice a day (morning and afternoon). Data collection consisted of the growth, survival rate and water quality (i.e., Temperature, pH, DO, Salinity, Ammonia and Nitrite). Data was analyzed by ANOVA and Duncan Test and water quality used descriptive analysis. The result showed that application of artificial feed were significant effect ($P<0.05$) to the growth, survival rate and was highly significant in influencing the FCR, PER and NPU ($P<0.01$). Treatment B (3% feed biomass per day is the best treatment. It is giving the highest growth that is 57.93±1.68 g, survival rate (83.33±5.77%), FCR (1.08±0.03), PER (45.94±0.30), NPU (34.7167±3.163), moulting (3.90%). In general water quality of the rearing of mud crab used for the study is still within a good range for growth and survival rate of mud crab.

Biography

Istiyanto Samidjan is a Senior Lecturer of Fisheries and Marine Science Faculty, Diponegoro University, Indonesia.

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