GENETIC IMPROVEMENT OF BODY WEIGHT IN BLACK TIGER SHRIMP (PENAEUS -*MONODON)*

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Summary

The paper presents success of selective breeding program for better body weight of black tiger shrimp in Vietnam. Total of 77 selective families were produced, nursed and grown in pond and indoor tank. Estimated heritabilities for harvest weight of black tiger shrimp were quite high ranging from 0.60 ± 0.17 to 0.56 ± 0.15 in pond and tank respectively. Response to selection was 19.2% in G_1 gereration. Phenotypic differentiation of weight between selected population and overal population was about 10.5%. The moderate genetic-environment interaction was observed for body weight of the shrimp. Results also showed that the selective breeding program significantly improved body weight in black tiger shrimp.

Keywords: Heritabilities, response to selection, growth rate, black tiger shrimp**.**