A STUDY ON THE GROWTH AND SURVIVAL OF FRESHWATER PRAWN (*Macrobrachium rosenbergii*) FED WITH PELLETED, BOILED AND UNBOILED CHICKEN LIVER

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2007

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Lihat sebelah

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This project report is submitted in partial fulfillment of the requirement of the degree of Bachelor of Applied Science (Fisheries)

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2007

This project report should be cited as:

Ng, W.P.,2007. A study on the growth and survival of freshwater prawn (*Macrobrachium rosenbergii*) fed with pelleted boiled and unboiled chicken liver. Undergraduate thesis, Bachelor of Applied Science (Fisheries), Faculty of Agrotechnology and Food Science, University Malaysia Terengganu. 72p.

ACKNOWLEDGEMENTS

It is a great pleasure to be able to put on a record for my deep gratitude and appreciation to my supervisor, Dr Hamid Khoda Bakhsh for his generous in assistance, guidance and support. His supervision and patience has made my research possible and successful.

I am also grateful to Mr. Yaacub Rasip, Mr. Raja, Mr. Shahrol and other laboratory assistants for their kindness and assistance during my study at Marine Hatchery, Freshwater Hatchery and Anatomy and Physiology Lab. My appreciation also goes to Tuan Haji Umar who supplied the fry and sharing his knowledge with me.

Nevertheless, I would like to take this opportunity to express my heartfelt thank to my teammate; Khoon Lin for his supports and helps throughout this project. I would also like to thank my course mates, all my friends and those who are not able to be put into the lists for their unforgettable help and support in completing this project.

Last but not least, I wish to express my deepest gratitude to my family for their endless love, understanding and moral support throughout my university life at Terengganu.

ABSTRACT

The protein component of the feed is the most expensive ingredient, therefore a rational approach for identification and selection of protein sources is essential to make the cost of the farm made feed for *Macrobrachium rosenbergii* culture more economical. This study was conducted to determine survival and growth of *M.rosenbergii* juvenile fed with boiled and unboiled chicken liver to evaluate their efficiency as feed ingredients. The experiment was conducted for eight weeks in hatchery under static water culture system. Juvenile prawns of average size 0.20-0.30g were stocked at density of 0.5 $pcsL^{-1}$ in twelve 100L polyethylene tanks. Four diets including commercial prawn pellet (Diet A), pelleted boiled chicken liver (Diet B), pelleted unboiled chicken liver (Diet D) and combination of 50% commercial pellet + 50% pelleted boiled chicken liver (Diet D) were fed to prawns in triplicate tanks. Wet weight and length of the prawn were measured every two weeks for biological analysis. Survival rate and proximate composition of the diets as well as prawn's tissue were analyzed at the end of experiment. Water quality parameters were also monitored throughout the experiment period.

Results of the present study showed that there were no significant different in percent weight gain (262.72 to 328.66), SGR (2.19 to 2.33) and ADG (0.0104 to 0.0157) among the treatments. Therefore, it is concluded that both boiled and unboiled chicken liver can be utilized as protein sources for freshwater prawn feeds. The combination of commercial prawn pellet and boiled chicken liver pellet feeds to the juveniles showed a significant increase (double times) in weight gain than