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Adult artemia as life feed for african catfish (*Clarias gariepinus*)
fingerlings / Mohd Fakrul Radzi Bemawi.

PERPUSTAKAAN SULTANAH NUR ZAHIRAH
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PERPUSTAKAAN SULTANAH NUR ZAHIRAH UMT

THE DEVELOPMENT OF MUD CRAB (*Scylla olivacea*)
SOFT-SHELL CRAB CULTURE TECHNOLOGY

By

Mohd Fakrul Radzi Bin Bemawi

Research Report submitted in partial fulfillment of
the requirements for the degree of
Bachelor of Agrotechnology Science (Aquaculture)

Department of Fisheries Science and Aquaculture
FACULTY OF AGROTECHNOLOGY AND FOOD SCIENCE
UNIVERSITY MALAYSIA TERENGGANU
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**FAKULTI AGROTEKNOLOGI DAN SAINS MAKANAN
UNIVERSITI MALAYSIA TERENGGANU**

**PENGAKUAN DAN PENGESAHAN LAPORAN
PROJEK ILMIAH I DAN II**

Adalah ini diakui dan disahkan bahawa laporan ilmiah bertajuk:
The development of Mud Crab (*Scylla olivacea*) soft-shell crab culture technology

oleh... Mohd Fakrul Radzi Bin Bemawi , No.Matrik ...UK 13896... telah
diperiksa dan semua pembedaan yang disarankan telah dilakukan. Laporan ini dikemukakan
kepada Jabatan Agroteknologi dan Sains Makanan sebagai memenuhi
sebahagian daripada keperluan memperoleh Ijazah Sarjana Muda
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DECLARATION

I hereby declare that the work in this thesis is my own except for quotations and summaries which have been duly acknowledged.

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ABSTRACT

The study of soft-shell crab production culture technology was carried out in the marine hatchery University Malaysia Terengganu. The study was to determine the best temperature, photo period and salinity factors used to produced the soft-shell crab using mud crab (*S. olivacea*). The culturing was carried out in the culture tank with different set of salinity, photo period and temperature combinations. The size of the crabs, days of moulting and survival rate had been recorded. The statistical analysis that had been used in the study was using descriptive, One-Way ANOVA and the correlation in the Statistical Package of Social Science (SPSS) program. The experiment had show a succession in the production of soft-shell crabs using the mud crab. The result showed that there was no significant different between the six culturing tank due to the P-value higher than the significant level 0.05. Result also showing no significant different between the different set of salinity and photo period. Comparison had done to show the interaction with the survival of crabs. The Tank no.3, 4 and 5 culturing condition can be used as the reference for future study. The removing the pincer and walking legs also contribute to the succession of the soft-shell crabs production.

ABSTRAK

Kajian terhadap teknik penghasilan ketam berkarapas lembut telah dijalankan di hatceri air masin Universiti Malaysia Terengganu. Kajian tersebut adalah bertujuan bagi melihat pengaruh suhu, kemasinan dan kesan cahaya terhadap penghasilan ketam berkarapas lembut daripada spesis *S. olivacea*. Pengkulturan dijalankan dengan menggunakan tangki-tangki yang mempunyai kombinasi suhu, masa cahaya dan kemasinan air aut yang berbeza. Saiz ketam, hari untuk ketam bersalin kulit dan kadar kematian telah direkodkan. Perisian yang telah digunakan untuk menjalankan analisis data ialah ringkasan deskriptif, ANOVA sehala dan korelasi dalam Pakej Statistik untuk Sains Sosial (SPSS). Experiment tersebut telah Berjaya menghasilkan ketam nipah berkarapas lembut. Hasil kajian menunjukkan bahawa tiada perbezaan beerti di antara ke tujuh-tujuh tangki kerana nilai P lebih besar daripada nilai 0.05. Hasil kajian juga menunjukkan bahawa tiada perbezaan beerti di antara pasangan kemasinan air laut, perbezaan masa cahaya dan juga suhu. Kondisi kultur Tangki no.3, 4 dan 5 boleh digunakan sebagai rujukan untuk kajian selanjutnya. Pemotongan sepit dan kaki juga dapat menyumbang kepada kejayaan dalam produksi ketam berkarapas lembut.