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ON THE PROGRESS OF THE FEDERAL RESERVE'S
RESEARCH ON THE EFFECTS OF MONETARY POLICY

FOR THE BOARD OF DIRECTORS

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2009

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**FEED EVALUATION STUDY ON SEVERAL TYPE
OF COMMERCIAL FEED FOR CATFISH
CULTURE**

By
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Research report submitted in partial fulfillment of the requirement of the degree of
Bachelor of Science in Agrotechnology Science(Aquaculture)

**Department of Fisheries and Aquaculture
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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:

Feed Evaluation Study On several Type Of Commercial Feed For Catfish Culture

Oleh Ahmad Rohaimee Bin Abdullah , No.Matrik UK15867 telah diperiksa dan semua pembetulan yang disarankan telah dilakukan. Laporan ini dikemukakan kepada Jabatan Sains Perikanan dan Akuakultur sebagai memenuhi sebahagian daripada keperluan memperolehi Ijazah Sarjana Muda Sains Agroteknologi (Akuakultur) , Fakulti Agroteknologi dan Sains Makanan, Universiti Malaysia Terengganu.

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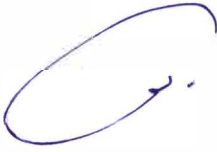
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DECLARATION

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

This study was conducted at marine hatchery, Department of Fisheries Science and Aquaculture, University Malaysia Terengganu (UMT). Three type of catfish pellet with differences crude protein were used in order to evaluate the suitability of them for *Clarias gariepinus* culture. Three fishes were taken out for protein analysis while the total length and total weight of 30 fishes were taken out and recorded in the early and by the end of the experiment. The mortality rate and amount of given feed was calculated and 3 fishes from each tanks were taken out for proximate analysis. The performance parameters (Absolute growth rate (AGR), food conversion ratio (FCR), Protein Efficiency Ratio (PER), Protein Digestibility and Survival rate) of three catfish pellet (Terengganu pellet, TP pellet and Cargill pellet) was determined through the proper calculation. Cargill pellet has the lowest value of AGR (0.41 ± 0.15), FCR (0.94 ± 0.37), PER (0.49 ± 0.16), Protein digestibility (85.00 ± 1.3) and Survival rate (93.30 ± 3.51) compare to the TP pellet and Terengganu pellet. This result shows that the Cargill pellet was the best feed for the African catfish.

ABSTRAK

Kajian ini telah dijalankan di Hatcheri Air Masin, Jabatan Perikanan dan Akuakultur, Universiti Malaysia Terengganu (UMT). Tiga jenis pellet yang mengandungi kandungan protein mentah yang berbeza telah digunakan bagi menguji kesesuaian makanan terhadap ternakan ikan keli, *Clarias gariepinus*. Tiga ekor ikan telah dikeluarkan untuk tujuan analisis protein sementara panjang dan berat keseluruhan bagi 30 ekor ikan yang lain telah diambil dan direkodkan pada awal dan akhir kajian dijalankan. Kadar kematian dan jumlah makanan yang diberi telah dikira dan 3 ekor ikan bagi setiap tangki telah dikeluarkan untuk tujuan analisis proksimat. Penentuan parameter (Absolute growth rate (AGR), food conversion ratio (FCR), Protein Efficiency Ratio (PER), Protein Digestibility and Survival rate) bagi tiga jenis pellet ikan keli (pellet Terengganu, pellet TP dan pellet Cargill) telah ditentukan melalui pengiraan yang betul. Pellet Cargill mempunyai nilai yang paling rendah merangkumi nilai AGR (0.41 ± 0.15), FCR (0.94 ± 0.37), PER (0.49 ± 0.16), Protein digestibility (85.00 ± 1.3) and Survival rate (93.30 ± 3.51) berbanding dengan pellet TP dan pellet Terengganu. Ini menunjukkan bahawa pellet Cargill merupakan makanan yang terbaik untuk ikan keli Afrika.