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Study of ectoparasite from *Clarias gariepinus* in cages at Pulau Musang / Nurul Hafizah Mohamad.

PERPUSTAKAAN SULTANAH NUR ZAHIRAH
UNIVERSITI MALAYSIA TERENGGANU (UMT)
21030 KUALA TERENGGANU

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PERPUSTAKAAN SULTANAH NUR ZAHIRAH UMT

THE STUDY OF ECTOPARASITE IN *Clarias gariepinus* IN CAGES AT PULAU
MUSANG

By
Nurul Hafizah Binti Mohamad

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

Department of Fisheries Science and Aquaculture
FACULTY OF AGROTECHNOLOGY AND FOOD SCIENCE
UNIVERSITI 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 Study of Ectoparasite From *Clarias gariepinus* in Cages at Pulau Musang

oleh..... Nurul Hafizah bt Mohamad....., No.Matrik ...UK 16108.... telah
diperiksa dan semua pembetulan yang disarankan telah dilakukan. Laporan ini dikemukakan
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..... Sains Agroteknologi (Akuakultur)....., Fakulti
Agroteknologi dan Sains Makanan, Universiti Malaysia Terengganu.

Disahkan oleh:

Penyelia Utama PROF. DR. FAIZAH SHAHAROM
Nama: Pensyarah Jabatan Sains Perikanan & Akuakultur
Cop Rasmi: Fakulti Agroteknologi & Sains Makanan Universiti Malaysia Terengganu
21030 Kuala Terengganu

Tarikh:

Penyelia Kedua (jika ada)

Nama:

Cop Rasmi

Tarikh:

DECLARATION

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

Signature :

Name : Nurul Hafizah Binti Mohamad....

Matric No. : UK 16108.....

Date :

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ABSTRAK

Kajian mengenai ektoparasit telah dijalankan di Pulau Musang, Terengganu. Sejumlah 30 ikan telah diperiksa demi mendapatkan ektoparasit yang menjangkiti ikan yang diternak di dalam sangkar dan menentukan prevalen serta min keamatan ektoparast yang dijumpai. Hanya *Bychowskyella sp.* yang dijumpai di dalam kajian ini. Prevalen bagi *Bychowskyella sp.* yang dijumpai adalah 86.7 % dan min keamatan adalah 6.69 bilangan per ikan. *Bychowskyella sp.* telah dijumpai di pelbagai bahagian insang ikan. Insang dibahagi kepada empat bahagian iaitu insang pertama, kedua, ketiga dan keempat. Kemudian, insang ikan akan diperiksa dibawah mikroskop dan *Bychowskyella sp.* aka diwarnakan dengan glycerin jelly. Sampel parasit dilukis dengan menggunakan Camera Lucida untuk melihat morfologinya. Kualiti air merupakan salah satu faktor utama yang menyebabkan kehadiran parasit seterusnya menyebabkan ikan mendapat penyakit. Oleh itu, penternak perlu menjaga kualiti air bagi ternakan ikan untuk mengurangkan ikan mati disebabkan penyakit.

ABSTRACT

This study was conducted at Pulau Musang, Terengganu. A total of 30 fishes were examined in order to obtain the ectoparasites infecting fish from cage culture and to determine the prevalence and mean intensity of ectoparasite found. Only *Bychowskyella sp.* was found in this research. The prevalence of *Bychowskyella sp.* found is 86.7 % and the mean intensity is 6.69 individuals per fish. The *Bychowskyella sp.* found on various sites of the gills. The gills were divided into four parts which was the first, second, third and fourth gill. Then, the gills were examined under microscope and *Bychowskyella sp.* was stained with glycerine jelly. The parasite samples were drawn using Camera Lucida to see the detail morphology. The water quality was the main factor to cause fish has parasite and get the disease. So, the farmers must control the water quality in cage culture to decrease the number of fish deaths caused by the disease.