

FATS DIVERSITY AT THE MOUTH OF KOLEJ UNIVERSITI
SAINS DAN TEKNOLOGI MALAYSIA (KB. PADANG
NEPAS, TERENGGANU)


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FAKULTI SAINS DAN TEKNOLOGI
KOLEJ UNIVERSITI SAINS DAN TEKNOLOGI MALAYSIA
2005

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Bats diversity at the vicinity Kolej Universiti Sains dan
Teknologi Malaysia (Kg Padang Nenas, Terengganu) / Wan
Draputri Razali.



PERPUSTAKAAN
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PERPUSTAKAAN KUSTEM

**BATS DIVERSITY AT THE VICINITY OF KOLEJ UNIVERSITI SAINS DAN
TEKNOLOGI MALAYSIA (KG. PADANG NENAS, TERENGGANU)**

By

Wan Daraputri binti Razali

**Research Report submitted in partial fulfillment of
the requirements for the degree of
Bachelor of Applied Science (Biodiversity Conservation and Management)**

**Department of Biological Sciences
Faculty of Science and Technology
KOLEJ UNIVERSITI SAINS DAN TEKNOLOGI MALAYSIA
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**JABATAN SAINS BIOLOGI
FAKULTI SAINS DAN TEKNOLOGI
KOLEJ UNIVERSITI SAINS DAN TEKNOLOGI MALAYSIA**

PENGAKUAN DAN PENGESAHAN LAPORAN

PROJEK PENYELIDIKAN I DAN II

Adalah ini diakui dan disahkan bahawa laporan penyelidikan bertajuk: Bats Diversity at the Vicinity of Kolej Universiti Sains dan Teknologi Malaysia (Kg. Padang Nenas, Terengganu) oleh Wan Daraputri Binti Razali No. Matrik UK6730 telah diperiksa dan semua pembetulan yang disarankan telah dilakukan. Laporan ini dikemukakan kepada Jabatan Sains Biologi sebagai memenuhi sebahagian daripada keperluan memperoleh Ijazah Sains Gunaan Pemuliharaan dan Pengurusan Biodiversiti, Fakulti Sains dan Teknologi, Kolej Universiti Sains dan Teknologi Malaysia.

Disahkan oleh:

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Nama:

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ABSTRACT

A study of the bats diversity within KUSTEM vicinity (Kg Padang Nenas) was carried out for the total of 20 days, starting from October 2004 until January 2005. The study is aimed to examine the diversity of bats and to establish an inventory data of bats species for the conservation purposes. Ten mist nets were set randomly at the sampling sites. Captured bats were identified and tagged. Forearm measurement, sex, maturity and reproduction status were recorded before the bats were released. The result showed that 79 individual bats comprise of two species were captured during the study. Both of the species are belong to the family Pteropodidae. The most frequent trapped bat was *Cynopterus brachyotis* (Lesser Short-nosed fruit bat) with 67 individuals represents 84.8% of the total bats captured. A total of recapture individual bat was low with only 10 recaptures. The highest number of bat captured was in October with 31 bats were netted. The Shannon-Weiner's Index indicated that the selected sites have low species diversity with only 0.4260. From the study, vegetation, human activity, sampling methods, duration of study and types of capture methods are important in determining the species diversity of bats

**KEPELBAGAIAN SPESIES KELAWAR DI KAWASAN SEKITAR KUSTEM
(KG. PDG. NENAS)**

ABSTRAK

Kajian ini adalah mengenai kepelbagaian spesies kelawar di kawasan sekitar KUSTEM (Kg Padang Nenas). Kajian ini telah diadakan selama 20 hari dalam tempoh empat bulan bermula daripada bulan Oktober 2004 sehingga Januari 2005. Objektif utama kajian ini adalah untuk mengkaji kepelbagaian spesies kelawar dan menyediakan data perintis untuk tujuan pemuliharaan di kawasan sekitar KUSTEM. 10 jaring kabus dipasang secara rawak di sekitar kawasan tersebut. Kelawar yang ditangkap dikenalpasti dan ditanda. Beberapa ukuran seperti lengan (forearm), jantina, berat, status umur dan reproduktif juga turut dicatat sebelum kelawar ini dilepas semula. Hasil tangkapan menunjukkan 79 ekor kelawar daripada dua spesies telah berjaya ditangkap. Kedua-duanya adalah daripada famili Pteropodidae. *Cynopterus brachyotis* merupakan spesies yang paling dominan iaitu berjumlah 84.6% daripada jumlah kelawar yang berjaya ditangkap. Nilai indeks Shanon-Weiner menunjukkan kepebagaian di habitat tersebut adalah rendah iaitu sebanyak 0.4260. Daripada kajian ini, didapati faktor seperti vegetasi, jangka masa kajian dan jenis alat tangkapan yang digunakan penting dalam menentukan kepelbagaian spesies kelawar.