

A Dichotomous Key for the Identification of the Cockroach fauna (Insecta: Blattaria) of Florida

Insect Classification Exercise
Department of Entomology and Nematology
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Abstract: Students used available literature and specimens to produce a dichotomous key to species of cockroaches recorded from Florida. This exercise introduced students to techniques used in studying a group of insects, in this case Blattaria, to produce a regional species key. Producing a guide to a group of insects as a class exercise has proven useful both as a teaching tool and as a method to generate information for the public.

Key Words: Blattaria, Florida, Blatta, Eurycotis, Periplaneta, Arctiphaga, Comptosia, Holocompsa, Myrmecoblatta, Blautella, Cariblatta, Chorisonotura, Euthlastoblatta, Ischnoptera, Latiblatta, Neoblattella, Parcoblatta, Ploceoptera, Supella, Symptloe, Blaberus, Epilampra, Hemiblaberus, Nauphoeta, Panchlora, Phoetalia, Pycnosotis, Rhyparobia, distributions, systematics, education, teaching, techniques.

Identification of cockroaches is limited here to adults. A major source of confusion is the recognition of adults from nymphs (Figs. 1, 2). There are subjective differences, as well as morphological differences. Immature cockroaches are known as nymphs. Nymphs closely resemble adults except nymphs are generally smaller and lack wings and genital openings or copulatory appendages at the tip of their abdomen. Many species, however, have wingless adult females. Nymphs of these may be recognized by their shorter, relatively broad cerci and lack of external genitalia. Male cockroaches possess styli in addition to paired cerci. Styli arise from the subgenital plate and are generally conspicuous, but may also be reduced in some species. Styli are absent in adult females and nymphs.

As keys were modified to include / restrict genera to Florida it became apparent that certain neotropical genera would have to be included: Epilampra, Neoblattella, and Rhyparobia. The latter genus has not been found in Florida but its distribution makes it a likely candidate to be found here (Atkinson et. al, 1991). The other two genera have been recorded from Florida and are known to have established populations in extreme southern Florida.

Published keys were used whenever possible. Photo credits are given with pictures.



Fig. 1. Adult Australian cockroach, *Periplaneta australasiae* (F.); Blattaria, Blattellidae. Photo by J. Castner.

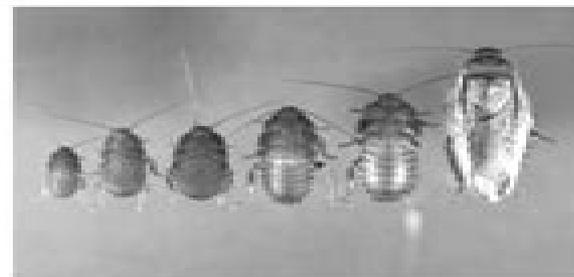


Fig. 2. Nymphs and adult of "Lobster" cockroach *Nauphoeta cinerea* (Olivier). Photo by J. Castner.

Project coordinator: P. M. Chase

Student Contributors: (First class ENY 4161/6166; S. Burns, L. Olsen, D. Richman, G. Pérez, M. Pannauke, C. McFarland, K. McManamy, and R. Flake. Subsequent classes have tested and modified portions of this document.)

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D. M. Guthrie,A. R. Tindall



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are pictured and discussed The only book for the pet or feeder cockroach enthusiast **The Biology of the Cockroach**
David Maltby Guthrie,Alexander R. Tindall,1968 The biology of the cockroach David Maltby Guthrie,Alexander Reginald
Tindall,1970 **The American Cockroach** K.G. Adiyodi,2012-12-06 This volume deals mainly with the biology of the
American cockroach *Periplaneta americana* 1 Contributors were urged to emphasize recent findings including unpublished
data when possible a goal that would not have been feasible if it were not for the two previously published books on the basic
biology of cockroaches *The Biology of the Cockroach* 1968 by D M Guthrie and A R Tindall and *The Cockroach Volume 1* 1968
by P B Cornwell Those topics not included in *The American Cockroach* such as external morphology are well covered in the
two preceding books In addition these books provided a broad background upon which contributors to *The American*
Cockroach have been able to build with recent trends new and established concepts and integration Although this book deals
primarily with the American cockroach many chapters offer a comparative approach in sections where the more recent and
exciting research has been accomplished on other species Most contributors place the cockroach in perspective with regard
to its appropriateness or inappropriateness for various types of biological investigations Many questions are realistically left
unanswered when no acceptable or obvious solution is apparent an invitation to new researchers to consider the cockroach
as an experimental subject **The Cockroach (Periplaneta Americana, L.)** Ewen Cameron,2016-03-16 *The Cockroach*
covers the structure and physiology of the American cockroach *Periplaneta americana* This well known insect is extensively
used by research workers for insecticide testing and general experimental work This book is composed of 12 chapters and
begins with a presentation of the classification life history and development and the external features of the American
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nervous reproductive and muscular systems sense organs and excretion A chapter presents some practical guidelines in the
laboratory for observation dissection and drawing The last chapter describes the parasites and predators of the American
cockroach Zoologists entomologists researchers and entomology students will find this book rewarding The Biology of the
Cockroach D. M. Guthrie,A. R. Tindall,1970 **Cockroaches-- Identification, Biology, and Control** G. L. Piper,A. H.
Retan,Arthur L. Antonelli,Washington State University. Cooperative Extension,Oregon State University. Extension
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