

Computerized Biological Control

A Computer Database

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MENUS/INDEXES

Insects "etc." [Insects and their kin]

- Insects etc. by ID Numbers [precursors to hyperlinks]
- Insects etc. by Names
- Groups of Insects etc.
- Identification Key for Insects etc.
- First Aid for Venomous Arthropods

Plants & Environmental Impact (with Insects etc. listed as feeders etc.)

- Plants by Names
- Botanical Groups of Plants
- Horticultural Groups of Plants
 - berries
 - flowers
 - fruit trees
 - (green)house plants
 - herbaceous (nonwoody) plants
 - lawns/turf
 - nursery stock
 - nuts
 - ornamentals
 - plants, in general (See "Environmental Impact" lists)
 - seedlings

- vegetables
- weeds
- woody plants: shrubs (bushes) and trees

Environmental Impact of Insects etc.

- Feeding on the roots (or other underground parts) of plants
- Chewing on the shoots (stems, buds, leaves, flowers, or fruit) of plants
- Sucking the sap from the shoots of plants
- Tunneling within the pithy stems (including tubers) or roots of herbaceous (nonwoody) plants
- Boring within the woody roots, trunks, branches, or twigs of shrubs or trees
- Mining within the leaves of plants
- Burrowing within the fruit or seeds of plants
- Making galls in plants
- Infecting plants with disease
- Laying eggs in and, thus, injuring the twigs of shrubs or trees
- Laying eggs in and, thus, injuring the fruit of plants
- Annoying or injuring people or pets (See "First Aid" entries.)
- Preying on or parasitizing other insects etc.
- Improving the soil
- Pollinating flowering plants

- Plant Nutrient-Deficiency Key

Biological Controls & Suppliers (*all cross-referenced*)

- Biological Controls for Sale
- Hosts/Prey of Biological Controls for Sale
- Suppliers of Biological Controls

Helpful Information

- What Is "Computerized Biological Control"?
- Introduction to *Computerized Biological Control* (below)
- Using the *Computerized Biological Control* Program
- Garden Pest Control, in general
 - Physical Controls of Pests
 - Chemical Controls of Pests
 - Biological Controls of Pests
- Major References (below)
- Disclaimer

INTRODUCTION

Thank you for your interest in "Bug" Doug's *Computerized Biological Control*! I'm "Bug" Doug Drenkow, an organic vegetable gardener for many years. In 1980 I received my Bachelor of Science degree with Highest Honors in Plant Science, from the University of California at Davis. For years now I've been researching (in addition to a great many other subjects) alternatives to pesticides for the control of insect pests. I've put my insect-control research on computer disks for three reasons.

First, because there are tens of millions of us gardeners nationwide and there are home computers in a quarter of all households, there are millions of potential users of *Computerized Biological Control*.

Second, because insects are the most numerous and diverse group of animals on Earth, I have accumulated thousands of pages of research, "crying out" for a medium as compact as computer disks.

Finally, because insects have so very many complex ecological interrelationships—each species feeding on and, in turn, being fed on by a wide variety of other organisms—relationships that are the key to biological control, abundant cross references are vital: With this "user friendly" program and comprehensive data base, each of these thousands of pieces of useful and fascinating information is literally at our fingertips!

I trust that you will have never found another reference on garden insects that is as thorough—especially ecologically—and yet as simplified and well organized as *Computerized Biological Control*. It will help you enrich your garden ecosystem and answer those ever-popular insect questions: "What is it?" and "What does it do?"

MAJOR REFERENCES

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Borror, Donald J., and Richard E. White, *A Field Guide to the Insects of America North of Mexico*, The National Audubon Society's Peterson Field Guide Series, Houghton Mifflin Company, Boston, 1970.

Drenkow, Douglas, *Food Webs of Insects and Their Kin*, DED Electronic Publishing, Arcadia, CA, 1991 (This computerized database is much more thorough—with over a thousand entries—and much more scientifically rigorous—as with scientific nomenclature—than the database you are now using, more for general interest.).

Hogue, Charles L., and Fred S. Truxal, *The Insect Realm: A Guide to the Hall of Insects*, Los Angeles County Museum of Natural History, 1970.

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Ware, George W., *Complete Guide to Pest Control—With and Without Chemicals*, Thomsom Publications, Fresno, CA, 1980.

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