

The Insect Information Web Site. A source for insect information, and links to the handouts and referred fact sheets used in Master Gardener training, is housed within the Department of Bioagricultural Sciences and Pest Management at Colorado State University <http://www.colostate.edu/Depts/bspm/> . Click on “Extension and Outreach” to find the “Insect Information” site.

Some Ideas for Your Insect Library

- Kaufman Field Guide to Insects of North America.* 2007. E.R. Eaton and Kenn Kaufman. Houghton Mifflin Company. Price: \$18.95
Developing a guide for insects is difficult given their incredible diversity but this guide does an excellent job tackling this task. It is the easy to use and extensively illustrated (ca 2,350 images).
- Attracting Native Pollinators. 2014 Available through the Xerces Society of Invertebrate Conservation <http://www.xerces.org/> 384 pp. Price: \$25.00
A very thorough treatment of methods that can be used to improve habitat to favor populations of pollinator species. A section introducing the various common genera of native bees is very well illustrated and an excellent resource of introducing one to the appearance and habits of these insects.
- The Bees in Your Backyard.* 2015. J.S. Wilson and O. M. Carril. Princeton University Press. 288 pp. Price: \$29.95
This book successfully handles a very difficult subject, the North American bees – which includes over 4000 NA species. Well illustrated, with over 900 photographs, and organized in a manner that can be very useful if one wishes to identify and learn basic life history of bees one may encounter in backyards, or other settings.
- Farming with Native Beneficial Insects.* 2014. Available through the Xerces Society of Invertebrate Conservation <http://www.xerces.org/> 257 pp. Price: \$22.00
This publication focuses on insects that are useful in the biological control of other insects (e.g., lady beetles, lacewings, syrphid flies, parasitic wasps). Numerous examples are given to illustrate how changes in landscape practice can affect the activity of these kinds of helpful insects.
- Bugs Rule! An Introduction to the World of Insects.* W. Cranshaw and R. Redak. 2013. Princeton University Press. Price: \$55.00
A book designed for an introductory entomology class that tries to cram in everything-you-need-to-know-about-insects in one class. Lots of photographs.
- Life on a Little Known Planet.* H.E. Evans. 1993. Lyons and Burford, Publishing, New York, NY. Price: \$14.95.
Probably the best introduction to the world of living insects available. Full of well-written, fascinating stories of common insects and a healthy dose of philosophy.
- The Bugs in the System: Insects and Their Impact on Human Affairs.* M. Berenbaum. 1995. Helix Books; Addison-Wesley Publishing Co. \$15.00
Packed with interesting information on a wide variety of topics related to insects: how they develop, their importance in agriculture, historical events involving insects - a bit of everything. Written well and very entertaining.
- Garden Insects of North America.* 2004. W. Cranshaw. Princeton University Press, Princeton, NJ. Price \$29.95 (paperback)
Designed as a field guide to North American insects of garden plants, including vegetables, fruits, flowers, trees/shrubs and turfgrass. The most outstanding feature is the photographs; mention of some 1400 species is made with photographs for most and

multiple images for key species. Keys include host plant associations and there is an extensive Diagnostics section in the beginning.

Guide to Common Freshwater Invertebrates of North America. J. Reese Voshell, Jr. 2002. The MacDonald and Woodward Publishing Co. Price: ca \$25

A quite accessible field guide style book on this vast topic. Includes information on habits as well as basic biology.

Common Spiders of North America. 2012. Richard Bradley. University of California Press. Price: ca \$60 hardcover; \$35 Kindle version.

Brand new identification guide to North American spiders containing hundreds of color drawings. The new standard for spider identifications.

Spiders and Their Kin. H.W. Levi and L.Z. Levi. 2001. St. Martin's Press. New York. Price: \$6.95.

This guide will allow identification of many common spiders to family level and even sometimes to species. Due to its low cost and ease of use, this remains a useful non-technical guide to spider identification.

Colorado State University Publications

Available through the University Resource Center, Colorado State University, 115 General Services Bldg./Rm 4061, Ft. Collins, CO 80523. Phone: (970) 491-6198. FAX: (970) 491-2961. Web address: <http://www.csuextstore.com/store/pc/home.asp>

Insects and Diseases of Woody Plants in Colorado. 2014. Multiple authors. Colorado State University Cooperative Extension Publication 506A. Price: \$40.00.

Household Insects of the Rocky Mountain States. 1994. W.S. Cranshaw, M.J. Brewer, S.A. Armbrust and S. LaJeunesse. Colorado State University Cooperative Extension Publication 557A. Price: \$8.50

Turfgrass Insects of Colorado and Northern New Mexico. 1996. W.S. Cranshaw and C. Ward. Colorado State Cooperative Extension Publication 560A. Price: \$8.00.

Some Insect Museums

The Butterfly Pavilion and Insect Center. This is located at 6252 West 104th Ave in Westminster and is open every day except Monday. Special tours can be made by arrangement.

Phone: (303) 469-5441

Email: www.butterflies.org

The May Museum of Natural History. This is located along the highway running between Colorado Springs and Canon City - marked with a huge rhinoceros beetle at the side of the road. It is open from May 1-October 1. Special arrangements for large groups can be made at other times.

Phone: (719) 576-0450/(800) 666-3840

Email: www.maymuseum-camp-rvpark.com/natural_history.htm

Some Good Web Sites

Colorado State University Insects Online Fact Sheets

<http://www.ext.colostate.edu/PUBS/INSECT/pubins.html>

A source for over 90 fact sheets on common and important insects of Colorado.

BugGuide.net (<http://bugguide.net/node/view/15740>)

A web site dedicated to posting and identifying images of insects and other arthropods.

BugWood/IPM Images (<http://www.ipmimages.org>)

A repository of insect images (including a great many by CSU personnel), particularly emphasizing those of economic importance. The use of these slides is allowed for all educational purposes; commercial uses do require permission, which is almost always freely given. Best source if you need insect images.

Entomological Society of America (<http://www.entsoc.org/>)

Home page of the national association dedicated to entomological sciences. Links to other entomological associations and departments.

American Arachnological Society <http://www.americanarachnology.org/>

Home page of the national association dedicated to the study of arachnids. Several good links to information on spiders, scorpions, windscorpions and other arachnids

Xerces Society <http://www.xerces.org/>

The Xerces Society for Invertebrate Conservation is highly active in issues affecting insects and other arthropods native to North America. They have produced a great many fine publications regarding ways to recognize and conserve native insects (including pollinators), and most of these publications can be freely downloaded.

Grasshoppers: Their Identification, Biology and Management

http://www.sidney.ars.usda.gov/grasshopper/ID_Tools/

This USDA site consolidates numerous grasshopper-related resources (including the excellent material from Wyoming).

The University of Florida Book of Insect Records (<http://entnemdept.ufl.edu/walker/ufbir/>)

Biggest, fastest, longest lived.... A summary of insect records.

Snopes.com Urban Legends Reference Pages (<http://www.snopes.com/index.html>)

A site that catalogs all manner of urban legends and rumors. For those with an insect angle click on "Horror" then click on "Insect Infestations".

Entomology Fact Sheets from Colorado State University are available on the Web at:

<http://www.ext.colostate.edu/pubs/pubs.html#insects>

A large number of publications are available on-line through the **Colorado State Insect Information Web Site** (<http://bspm.agsci.colostate.edu/outreach-button/insect-information/>). It is found within the Department of Bioagricultural Sciences and Pest Management: (<http://www.colostate.edu/Depts/bspm/>) If you go through there, then click on "Extension", click on "Insect Information" and you will find links to "Bug Mugs", "Colorado Arthropods of Interest" and several other publications (including Master Gardener publications) and powerpoint presentations related to Colorado insects.

... and don't forget to check out the **Western Colorado Entomology Web Site**

(<http://wci.colostate.edu/>) – a particularly good site for local issues affecting western Colorado!

Suppliers of Insect Collecting Equipment

Ben Meadows Company

3589 Broad St.

Atlanta, GA 30341

Phone: (800) 241-6401

Internet: www.benmeadows.com

Carries sweep nets, pins, killing jar, pinning blocks and one size (12" x 16" x 2.5") of display case.

Bio-Quip Products

2321 Gladwick St.

Rancho Dominguez, CA 90220

Phone: (310) 324-0620

Internet: www.bioquip.com

The most complete source for materials related to insect collection and preservation. BioQuip also carries a very extensive library of entomology-related books.

Carolina Biological Supply

2700 York Rd.

Burlington, NC 27215

Phone: (800) 334-5551

Internet: www.carolina.com

A large biological supply house, they carry #2 pins, a display box and an insect net.

Forestry Suppliers, Inc.

P.O. Box 8397

Jackson, MS 39284-8397

Phone: (800) 647-5368

Internet: www.Forestry-Suppliers.com

Carries a good range of insect collecting and display items.

Gempler's

P.O. Box 270

Belleville, WI 53508

Phone: (800) 382-8473

Internet: www.gemplers.com

Oriented towards pest management, Gempler's sells a variety of insect nets, pheromone other insect traps

Nasco

901 Janesville Ave.

P.O. Box 901

Ft. Atkinson, WI 53538-0901

Phone: (800) 558-9595

Internet: www.eNASCO.com

Carries the basic supplies used in insect collection (sweep nets, pins, display boxes, killing jars)

Nebraska Scientific

3823 Leavenworth St.

Omaha, NE 68105-1180

Phone: (800) 228-7117

Internet:

www.nebraskascientific.com

Carries the basic supplies used in insect collection (sweep nets, pins, display boxes, killing jars)

WARD'S Natural Science

P.O. Box 92919

Rochester, NY 14692-9012

Phone: (800) 962-2660

Internet: www.wardsci.com

A large biological supply house that carries a wide selection of basic insect collecting and display supplies.