



Organic Pest Management

Good Bugs, Bad Bugs in the Garden

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Suzanne Wainwright-Evans • Buglady Consulting

Websites

- OMRI – Organic Materials Review Institute www.omri.org
- USDA NOP – USDA National Organics Program www.ams.usda.gov/nop/
- ATTRA - National Sustainable Agriculture Information Service www.attra.org
- Resource Guide for Organic Insect and Disease Management
<http://www.nysaes.cornell.edu/pp/resourceguide>
- Managing the Japanese Beetle: A Homeowner’s Handbook
http://www.aphis.usda.gov/lpa/pubs/pub_phjbeetle04.pdf
- Biological Control: A Guide to Natural Enemies of North America
<http://www.nysaes.cornell.edu/ent/biocontrol/>
- Biological Control Information Center <http://cipm.ncsu.edu/ent/biocontrol/>
- Integrated Pest Management for Vegetable Gardens
<http://www.ext.vt.edu/pubs/envirohort/426-708/426-708.html>
- BugWood Network - www.bugwood.org
- Native Plants for Beneficials <http://nativeplants.msu.edu/pdf/E2973.pdf>

Books

- Garden Insects of North America: The Ultimate Guide to Backyard Bugs - Whitney Cranshaw. 672 pages Princeton University Press, 2004.
- Natural Enemies Handbook: The Illustrated Guide to Biological Pest Control - 154 pages University of California Press. 1999 Publication # 3386
- COINCIDE: The Orton System of Pest & Disease Management - By Donald Orton 630-668-8597 www.laborofloveconservatory.com

Biological Control Suppliers for Homeowners

Name	Website	Phone	About
Arbico	www.arbico-organics.com	(800) 827-2847	Assorted beneficials
Beneficial Insectary	www.insectary.com	(800) 477-3715	Green lacewings
Biotactics, Inc.	www.benemite.com	(909) 943 2819	Predatory mites
IPM Laboratories	www.ipmlabs.com	(315) 497 2063	Assortment of beneficial insects and mites
BioLogic Company	www.biologicco.com	(717) 349-2789	Beneficial nematodes
Gardens Alive	www.gardensalive.com	(513) 354-1482	Beneficial nematodes and more

Things to Remember

- Plant herbs and flowers among vegetables and landscape
- Beneficials love biodiversity and plants of different heights
- Before you spray, make sure beneficials are not already on the job
- Lots of small flowers are better for beneficials than one large showy one

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The Good Guys

Insects	Feeds on
Beetles (ladybugs)	Aphids, mites, butterfly eggs, soft bodied insects
Beetles (ground, rove, tiger)	Cutworms, caterpillars, cucumber beetles
Lacewings	Aphids, mealybugs crawlers, scale crawlers
Wasps	Caterpillars, scale, beetles, aphids
Earwigs	Soft bodied insects
Flies, some	Caterpillar eggs, aphids, scale, mites
Praying mantis?	Butterflies, humming birds, honey bees and others
Predatory stink bugs	Caterpillars and other soft bodied insects
Predatory thrips	Spider mites
Mites	Feeds on
Predatory mites	Mites, thrips, fungus gnats
Nematodes	Feeds on
Beneficial nematodes	Fungus gnats, grubs, fleas, thrips, soil insects

Plants That Are Easy To Grow and Attract Beneficials

- Alyssum
- Angelica
- Boneset
- Buckwheat
- Butterfly weed
- Catnip
- Cilantro
- Clover
- Coriander
- Cosmos
- Daisy
- Dandelion
- Dill
- Fennel
- Feverfew
- Goldenrod
- Lavender
- Mallow
- Mints
- Queen Anne's Lace
- Speedwell
- Sunflowers
- Wild bergamot
- Yarrow
- Zinnia



Thank you for coming to my talk!
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