

Environmentally Sensitive Pest Management For the Interior Landscape



Calscape - Las Vegas, NV. Oct 2, 2009
Suzanne Wainwright Evans · Buglady Consulting

- Insects
 - **Aphids**
 - Insecticides
 - Insecticidal soaps
 - Horticultural oils
 - Biological Control
 - Parasitic wasps - Not recommended for the interior because they fly around
 - Predators
 - Green Lacewing – (*Chrysoperla* sp.) – Use eggs or larvae
 - **Chili Thrips** (*Scirtothrips dorsalis* Hood)
 - Predatory mite - *Amblyseius swirskii*
 - **Mealybugs**
 - Insecticides
 - Insecticidal Soap
 - Horticultural Oil
 - Safari[®]
 - Enstar[®] II (IGR)
 - Distance[®] (IGR)
 - Azatin[™] XL (IGR)
 - Ornazin[®] (IGR)
 - Biological Control
 - Green Lacewing – (*Chrysoperla* sp.) Use eggs or larvae but will not feed that well on adult mealybugs
 - Mealybug Destroyer (*Cryptolaemus montrouzieri*)
 - **Scales**
 - Insecticides
 - Insecticidal Soap
 - Horticultural Oil
 - Safari

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- **Banana Moth** (*Opogona* sp.)
 - Biological Control
 - Beneficial Nematodes
- **Fungus Gnats** (Sciarid fly)
 - Insecticides / Drenches
 - *Bacillus thuringiensis* - Gnatrol®
 - Biological Control
 - Beneficial Nematodes (*Steinernema feltiae*)
 - Soil Dwelling Mite (*Hypoaspis miles*)
 - Rove Beetle (*Atheta coriaria*)
- Mites
 - **Two Spotted Spider Mites**
 - Insecticides
 - Horticultural Oils
 - Insecticidal Soaps
 - Biological Control
 - Predatory Mite (*Phytoseiulus persimilis*) Syngenta Bioline
 - Predatory Mite (*Neoseiulus californicus*) Sterling Insectary

Insectaries

Name	Address	Website / email	Phone	About
Applied Bio-nomics	Victoria, BC Canada	www.appliedbio-nomics.com	(250) 656 - 2123	Assortment of beneficials
Becker Underwood	Ames, IA 50010	www.beckerunderwood.com	(800) 232 - 5907	Beneficial nematodes
Beneficial Insectary	Redding, CA 96003	www.insectary.com	(800) 477 - 3715	Green lacewing and others
BioBest Canada Limited	Leamington, ON, Canada	www.biobest.be	(519) 322 - 2178	Assortment of beneficials
BioWorks	Victor, NY	www.bioworksinc.com	(800) 877- 9443	Biological pesticides
Buglady Consulting	Slatington, PA	www.bugladyconsulting.com	(610) 767- 9221	Loupes, sticky cards, consulting
Koppert Biological Systems	Romulus, MI 48174	www.koppert.com	(800) 928 - 8827	Assortment of beneficials
Sterling Insectary	Delano, CA 93216	www.sterlingnursery.com	(661) 725 - 1832	Predatory mites
Syngenta Bioline	Oxnard, CA 93034	www.syngentabioline.com	(805) 986 - 8265	Assortment of beneficials
The Bug Factory	Nanoose Bay, BC, Canada	www.thebugfactory.ca	(250) 468 - 7912	Beneficial insects and mites

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Book

“Natural Enemies Handbook: The Illustrated Guide to Biological Pest Control” - Mary Louise Flint and Steve H. Dreistadt Virtually every insect, mite, and spider family important in biological control is illustrated with a taxonomically correct line drawing and color photos. View 180 high-quality color photographs and 140 line drawings that feature hundreds of predators, parasites, and pathogens that attack pests. 154 pp. Softcover University of California. (800) 994-8849 Publication # 3386

Chemical Compatibility with Beneficials Information

- Koppert www.koppert.com
- BioBest www.biobest.be
- Becker Underwood www.beckerunderwood.com

Insect Growth Regulators

- Juvenoids - synthetically produced molecules that mimic the effects of the naturally occurring insect juvenile hormone
 - fenoxycarb (Logic[®])
 - kinoprene (Enstar[®] II) GH / Interior
 - methoprene (Precore[®])
 - pyriproxyfen (Distance[®]) GH
- Chitin synthesis inhibitors - synthetic molecules that inhibit the production of the exoskeleton element, chitin, following a molt
 - diflubenzuron (Dimilin[®]) GH / Interior
 - azadractin (derived from neem seed extract) Landscape
 - buprofezin (Talus[®]) Landscape
 - cyromazine (Citation[®]) GH

Always check to make sure that any pesticide you plan to use is registered in your state and is labeled for where it will be applied.

Thank you for coming to my talk!
The Buglady

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