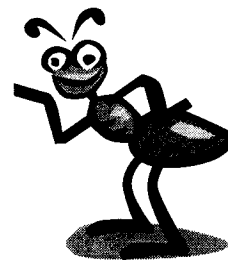


# All Kinds of Stuff From The Nite-Liter

By Buglady Consulting



## Insectaries / Biological producers

Name	Address	Website / email	Phone	About
Integrated BioControl Systems	PO Box 96, Aurora, IN 47001	<a href="http://www.goodbug-shop.com">www.goodbug-shop.com</a>	(888)793-IBCS (812) 537-8674	Produces 5 species of predacious nematodes
IPM Laboratories	Main Street Locke NY 13092	<a href="mailto:ipmlabs@baldcom.net">ipmlabs@baldcom.net</a>	(315) 497 2063	Assortment of beneficial insects and mites
Natures Alternative	1636 East Island Highway Nanoose Bay BC Canada V9P 2A5	<a href="http://www.thebugfactory.ca">www.thebugfactory.ca</a>	(250)468-7912	Beneficial insects and mites
Syngenta Bioline	PO Box 2430 Oxnard CA 93034	<a href="mailto:DCahn@SyngentaBioline.com">DCahn@SyngentaBioline.com</a>	(805) 986- 8265	Beneficial insects and mites
Sterling Insectary	PO Box 1987 Delano CA 93216 US	<a href="mailto:kim@sterlingnursery.com">kim@sterlingnursery.com</a>	(661) 725-1832	Predatory Mites
Biotactics, Inc.	20780 Warren Road Perris CA 92570 US	<a href="http://www.benemite.com">www.benemite.com</a>	(909) 943 2819	Predatory Mites

## Resource books

- "Biological Pest Management for Interior Plantscapes"** Steiner, M. Y. and D. P. Elliot. 2nd ed. Vegreville, Alberta: Alberta Environmental Centre. 32 pp, 1987
- " Ball Pest & Disease Manual- Disease, Insect and Mite Control on Flower and Foliage Crops"** Charles C Powell & Richard K Lindquist 426 pp, 1997.
- " The Healthy Indoor Plant"** Charles C. Powell and Rosemarie Rossetti, Waveland Press ISBN: 1577661575297 pp 295, 2000
- "Natural Enemies Handbook, An Illustrated Guide to Biological Pest Control"**, University of California. Publication # 3386 (800) 994-8849
- "Plant Health Care for Woody Ornamentals"** International Society of Arboriculture. Savoy, Illinois ISBN 1-883097-17-7
- "Pests of the Landscape trees and shrubs, an integrated pest management guide"** University of California. Publication # 3359 (800) 994-8849
- "IPM in Practice, Principles and methods of integrated pest management"** University of California. Publication # 3418 (800) 994-8849
- "Handbook of integrated pest management for turf and ornamentals"** edited by Annie R. Leslie CPR Press, 1994 ISBN 0-87371-350-8
- "Tips on Managing Problems in Interior Plantscapes"** (Item #311), Ohio Florist Association OFA Services, Inc. 2130 Stella Court, Suite 200, Columbus, OH 43215-1033 USA Phone: (614) 487-1117 41pp

## Resource flashcards

Name	Info	About
Indoor Plant Problems	Chase Research Gardens <a href="http://www.chaseresearchgardens.com">www.chaseresearchgardens.com</a> (530) 620 -1624	A quick guide to problems of indoor plants.
Troubleshooting Diseases of Foliage Plants ID Deck	University of Florida, SP 142 <a href="http://ifasbooks.ufl.edu/">http://ifasbooks.ufl.edu/</a> (800) 226-1764	Details root and stem diseases, as well as virus diseases of the major foliage plants
Helpful or Harmful Insects	University of Florida <a href="http://ifasbooks.ufl.edu">http://ifasbooks.ufl.edu</a> (800) 226-1764	Covers many different insects pests and beneficials.
The Good Guys! Natural Enemies of Insects	Illinois Natural History Survey <a href="http://www.inhs.uiuc.edu">www.inhs.uiuc.edu</a> (217) 333-6880	Covers many beneficial insects

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## Insect Growth Regulators for the Interiorscape

Product Name	Active ingredient	Information
<b>Chitin synthesis inhibitor</b>		
Adept	diflubenzuron	Fungus gnat larvae, whiteflies, shoreflies. Do not apply Adept to poinsettias, hibiscus and Reiger Begonia. Exceeding label rates, volumes or number of applications of this product can cause serious foliar injury to these crops.
Citation	cyromozine	Leaf minor fly larva, fungus gnats, and shore flies.
Dimilin	Diflubenzuron	fungus gnat larvae, Foliar spray
<b>Juvenile Hormone mimics</b>		
Distance	pyriproxyfen	Fungus gnats, white fly, scale
Enstar II	kinoprene	Aphids, fungus gnats, root mealybugs, scale insects (armored, soft-bodied), whiteflies.
Precision	finoxycarb	fungus gnats, scales (soft), shore flies, whiteflies. 12-hour REI
<b>Ecdysone</b>		
Ornazin	Neem oil	Kills/repels whiteflies, aphids, caterpillars.
Azatin	Neem oil	Whiteflies, thrips, fungus gnats, leaf miners, mealybugs, aphids. Can act as feeding and oviposition deterrent.
Neemazad	azadirachtin	Foliar spray, aphids, caterpillars (armyworms, loopers), leafminers, mealybugs, thrips, whiteflies

## Average rates for beneficial insects and mites

Name	Controls	Average Rates*	Frequency of application*	Release time	Other
<i>Phytoseiulus persimilis</i> (Mite)	Two-spot and other web-spinning mites in family Tetranychidae	2 mites/ft <sup>2</sup>	2-4 weeks	30 min- 1 hour/acre	Die off without food source
<i>Amblyseius californicus</i> (Mite)	Two-spot, broad mite, Tumid mite	2-4 mites/ft <sup>2</sup>	3 weeks	30 min-1 hour/acre	Better tolerance in high temperatures. Can survive on other mites and pollen and for a number of weeks without food.
<i>Amblyseius cucumeris</i> (Mite)	Thrips	5-100 mites / ft <sup>2</sup>	1-2 weeks	30 min-hour/acre or less if using release package	Feeds on spider mites and broad mite.
<i>Hypoaspis miles</i> (Mite)	Eggs, larvae and pupae of Fungus gnats	10-50 mites / ft <sup>2</sup>	Depends on crop	Varies on application method	Feeds also on soil-living insects like thrips pupae.
Green Lacewing Adults or larva	Aphids and other small soft bodied insects	3000-5000 adults/acre or 1-2 larvae per plant	Larvae 2-3 weeks Adults 2-4 weeks	Varies on application method	Will not become adults indoors
<i>Aphidius colmani</i> (parasitic wasp)	Aphids	1 wasp /20-100 ft <sup>2</sup>	1 time a week for 3 weeks	5 minutes per container	Only female adult parasitic wasp parasitize the aphids.
Beneficial Nematodes	Soil insects like fungus gnats, shore flies.	100,000/acre to 2 billion/acre depending on pest and formulation on nematode used	Depends on pest problem. Can vary from 1 application to every 3 weeks	Can be applied through hand spray or blower. Same times as spraying conventional chemicals	Very compatible with chemical spray programs