

The IPM Practitioner

Monitoring the Field of Pest Management

Volume XXXIII, Number 11/12, (Published September 2013)

33rd Year
of Publication

2013 Directory of Least-Toxic Pest Control Products

The 2013 Directory is a gateway to more than two thousand useful pest control items (for Quick Access see Box A on page 2 and the Index on page 40). Many of these products, services, or beneficial organisms have come to our attention in connection with articles published in BIRC's *IPM Practitioner* or the *Common Sense Pest Control Quarterly*, through IPM programs designed by our staff, or via recommendations from colleagues.

This Directory is unique because it is compiled by IPM technical experts, includes specific product descriptions, and is organized in concert with the IPM decision-making process (see *The IPM Practitioner* 13(11/12):1-9). All information is current, and is constantly updated on BIRC's computerized database system. It is divided into four management sections: Insects, Plant Disease, Vertebrates, and Weeds. Within each section, information is listed in alphabetical order by specific pest grouping. The IPM decision-making steps used to organize individual pest listings include Identification & Monitoring plus a consideration of Physical, Horticultural, Biological, and Least-Toxic Chemical Control methods.

For each product, specific descriptions are included when applicable, followed by the company name and the product name when available (in parentheses). Addresses and phone numbers of manufacturers and suppliers are listed alphabetically by company name at the end of the Directory. An Index to the Directory follows the List of Addresses.

Feedback and Disclaimer

Two caveats apply to this information. First, to the best of our know-



Photo courtesy of Beneficial Insectary

This predatory lacewing, *Chrysoperla rufilabris*, and many other commercially available biological controls, as well as traps, baits, pheromones, and other products needed for organic production and IPM can be found in this Directory.

ledge, these products, services, and beneficials are effective and are produced by reputable companies. However, they are used at your own risk, and BIRC makes no guarantees or warranties regarding any listing. To help us maintain quality control, we encourage you to contact us about your experiences, both positive and negative, with any of these companies or resources.

Secondly, all information was current at press time. However, pest control is a rapidly changing field: products come and go, and companies change hands and locations on a regular basis. Therefore, if you fail to reach any of the companies listed here, contact us at PO Box 7414, Berkeley, CA 94707; 510/524-2567; birc@igc.org.

Beneficial Insects

Both domestic and international producers of beneficials found in the Directory are listed by alphabetical order in the List of Addresses at the end of the Directory. Names and addresses of Biobest distributors are listed separately in Box B at the beginning of the List of Addresses, and Koppert distributors are listed in Box C.

Note to Quarterly Members

Because it was necessary to limit Quarterly production this year, Quarterly subscribers are receiving this Directory as a membership bonus.

The *IPM Practitioner* is published six times per year by the **Bio-Integral Resource Center (BIRC)**, a non-profit corporation undertaking research and education in integrated pest management.

Managing Editor	William Quarles
Contributing Editors	Sheila Daar Tanya Drlik Laurie Swiados
Editor-at-Large	Joel Grossman
Business Manager	Jennifer Bates
Artist	Diane Kuhn

For media kits or other advertising information, contact Bill Quarles at 510/524-2567, birc@igc.org.

Advisory Board

George Bird, *Michigan State Univ.; Sterling Bunnell, M.D., Berkeley, CA*; Momei Chen, *Jepson Herbarium, Univ. Calif., Berkeley*; Sharon Collman, *Coop Extn., Wash. State Univ.*; Sheila Daar, *Daar & Associates, Berkeley, CA*; Steve Frantz, *Global Environmental Options, Woodland Hills, CA*; Linda Gilkeson, *Canadian Ministry of Envir., Victoria, BC*; Joseph Hancock, *Univ. Calif., Berkeley*; William Olkowski, *Birc Founder*; George Poinar, *Oregon State University, Corvallis, OR*; Ramesh Chandra Saxena, *ICIPE, Nairobi, Kenya*; Ruth Troetschler, *PTF Press, Los Altos, CA*.

Manuscripts

The IPMP welcomes accounts of IPM for any pest situation. Write for details on format for manuscripts or email us, birc@igc.org.

Citations

The material here is protected by copyright, and may not be reproduced in any form, either written, electronic or otherwise without written permission from BIRC. Contact William Quarles at 510/524-2567 for proper publication credits and acknowledgement.

Subscriptions/Memberships

A subscription to the IPMP is one of the benefits of membership in BIRC. We also answer pest management questions for our members and help them search for information. Memberships are \$60/yr (institutions/libraries/businesses); \$35/yr (individuals). Canadian subscribers add \$15 postage. All other foreign subscribers add \$25 airmail postage. A Dual membership, which includes a combined subscription to both the *IPMP* and the *Common Sense Pest Control Quarterly*, costs \$85/yr (institutions); \$55/yr (individuals). Government purchase orders accepted. Donations to BIRC are tax-deductible. FEI# 94-2554036.

Change of Address

When writing to request a change of address, please send a copy of a recent address label.
© 2013 BIRC, PO Box 7414, Berkeley, CA 94707; (510) 524-2567; FAX (510) 524-1758. All rights reserved. ISSN #0738-968X

To obtain speedy delivery and receive advice from experienced sources, we recommend that you order directly from producers. Most of the producers listed rear at least one beneficial, but may distribute organisms produced by other companies.

Some producers may refer you to a distributor for small quantities. Whether the company is a producer or a distributor can be determined when a company representative is contacted. Since space limitations preclude listing all retail distributors of beneficial insects, only a select few are included.

International Orders of Beneficials

U.S. purchasers of natural enemies from Canada or other foreign countries must secure an import permit prior to ordering. Permit form #526 (for Canada) and forms for importing from other countries are available from: USDA-PPQ/APHIS, Federal Center Bldg., Hyattsville, MD 20782. Canadians purchasing from U.S. pro-

ducers need form #720, available from: Agriculture Canada, PPQD, Permit Office, Ottawa K1A 0C6.

Quantities of Beneficials

Questions about quantities to order, timing, and procedures for releasing the natural enemies can be answered by the producers. BIRC members/subscribers can also obtain advice from our technical staff. When making inquiries, please specify pest species, approximate number of plants (e.g., acreage, bench space, etc.), estimate of numbers of pests (e.g., number per sample leaf or percent of crop infested), and life stage of pest (adult, larva, etc.).

Acknowledgement

The *IPM Practitioner* would like to thank all the companies who supplied us with information, our advertisers, and the generous support of BIRC members and StopWaste.Org that made this Directory possible. Thanks also to William Quarles and Jennifer Bates, who did all the clerical work on this issue, and our printer Inkworks.

Box A. Quick Access

If you are looking for a specific item, see the Index on pages 40 and 41. To find a remedy for your pest problem, look in one of the four major sections according to whether the pest is an insect (arthropod), plant disease pathogen, vertebrate, or a weed. Except for the weed section, pests are listed by alphabetical order in each of the major categories. When you have found the pest listing, there are separate sections for Identification and Monitoring, and for Physical, Horticultural, Biological, or Least-Toxic Chemical Controls. For instance, to find a parasitoid to control aphids, look in the Insect Management section under Aphids, then under Biological Controls, then under Parasitoids. To find a trap for a raccoon, look in the Vertebrate section under Raccoons, then under Physical Controls until you find a listing of traps. Brand name items are enclosed in parentheses, and are attached to a series of suppliers. The first supplier on the list is the manufacturer.

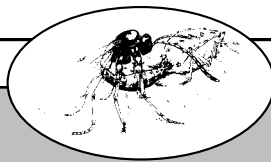
If the product you are seeking is not in the Index, you must know how the product is used, and for which pests, in order to immediately find the

listing. If the item you are seeking is hard to categorize, each of the four main divisions has a Miscellaneous section. If you are looking for a specific item such as insecticidal soap, diatomaceous earth, or silica gel, and do not know which pest category you should look at, browse major pest sections such as Ants and Aphids first, then browse Miscellaneous.

Beneficials

To find beneficial insects or arthropods, look first in the Index. If there is no listing in the Index, find the appropriate major section, then the alphabetical listing of the pest you are trying to control. When you have found the pest listing, then look under **Biological Controls**. Parasitoids available to fight your pest are listed first, followed by effective predators. **Beneficials are listed in alphabetical order by scientific name.**

A list of suppliers follows every item in the Directory. To find the addresses and phone numbers for the suppliers listed, look up each supplier by alphabetical order in the List of Addresses at the end of the Directory.



INSECT MANAGEMENT

ANTS

Physical Controls

Ant Proof Bowl:

The Antser

High Performance Vacuum:

Proteam (Sierra, Optimus)

Repellent Mulch: Green Light (CedarCide)

Sticky Barrier:

Tanglefoot, Planet Natural, Charley's, Gardens Alive!, Great Lakes, Harmony, Phero Tech (Tanglefoot) • Peaceful Valley • Phero Tech (Stikem Special)

Solar-powered Ant Trap (for fire ants):

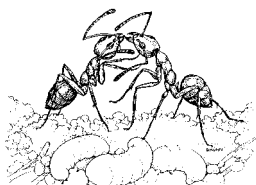
Heitman Labs (Solar Ant Charmer)

Teflon Barrier:

Check local hardware store in plumbing supplies

Tree Wrap:

Olson (Stiky Tree Guards) • Peaceful Valley



Biological Controls

Parasitic Mites:

Pyemotes tritici: (for fire ant): ARBICO

Least-Toxic Chemical Controls

Abamectin Bait (for fire ants):

Whitmire, Planet Natural (Ascend)

Abamectin Bait (for carpenter and household ants): Whitmire (Advance)

Fenoxycarb Bait (for fire ants):

Syngenta (Award, Logic)

Hydramethylnon Bait (for fire ants):

BASF (Amdro) • Bayer ES (Maxforce)

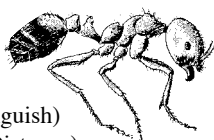
Methoprene Bait (for fire ants): Zoecon (Extinguish)

Pyriproxifen Bait (for fire ant): Valent USA (Distance)

Spinosad Bait (for fire ant): Dow, Green Light (Conserve)

Fipronil Bait (for fire ant): Bayer

Indoxacarb Bait (for fire ant): Dupont (Advion)



Botanical Sprays:

Woodstream (Mint Oil, Cedar Oil) • EcoSmart (herbal oils) • Orange Guard (Orange Oil) • JH Biotech (Ant Out)

Borate-Based Insecticides:

Waterbury (Mop-Up) • Whitmire (PT 249 Perma-Dust) • Waterbury, Planet Natural (Borid) • NISUS (Nibor)

Borate liquid ant baits (1%):

Waterbury, Gardener's Supply, Harmony (Drax) • Peaceful Valley • Woodstream (Victor) • JT Eaton (Dr. Moss) • Whitmire • Innovative • Nisus (Terro PCO)

Ant Cafe for Liquid Baits:

Innovative Products

Borate liquid bait (5%): Senoret, Harmony (Terro) • Roxide (Roxo)

Borate gel bait: Blue Diamond (ProJoeS, 4.5% DOT) • Innovative (Gourmet, 6% DOT) • A Safe (Uncle Albert's, 5% DOT) • Rockwell (Intice) • Whitmire (Advance) • Rockwell (Invict)

KM Ant Pro Bait Station: KM Ant Pro

Borate granular ant bait: NISUS, Target (Niban, Niban FG) • Rockwell (Intice)

Borate rods (for carpenter ants):

Pole Care (Impel Rods)

Borate-treated lumber (for carpenter ants):

Osmose

Borate treatments (for carpenter ants):

NISUS, Target, Univar (Bora-Care) • Permachink (Guardian, Shellguard) • Sashco (Penetreat) • NISUS (TimBor) • NovaGard (ArmorGard)

Diatomaceous Earth (DE) (ants, crawling insects, stored products. Permaguard, Diafil, Crop Guard, and Protect-It are for stored products use. Baited DE and DE with pyrethrin is used for crawling insects such as ants, roaches, and others):

Celite (100% freshwater DE, Diafil) • Eagle Picher (100% freshwater DE, Crop Guard, MN-53) • Hedley (Protect-It) • Whitmire (Mother Earth) • Permaguard, Nitron, Pristine (100% freshwater DE, Permaguard) • Woodstream (Concern) • Harmony • Nature's Control • Peaceful Valley • JT Eaton (Answer) • Gardener's Supply • Diacore

With pyrethrin (fire ant):

Permaguard, Nitron (Permaguard Household) • Woodstream (Concern)

Indoxacarb (Advion) Stations, Gels:

Dupont

Dinotefuran Bait: BASF (Alpine)

Hydramethylnon Bait Station and Granular Bait:

Bayer ES (Maxforce, Combat)

Fipronil Bait Station and Gels:

Bayer ES (Maxforce, Combat)

Integrated PerimeterBait Station:

B & G (Perimeter Patrol) • Maxforce • Whitmire (ACE)

Sulfluramid Bait Stations:

Whitmire (Advance)

Thiamethoxam (Optigard) Gels:

Syngenta

Insecticidal Soap:

Woodstream, Planet Natural, Gardens Alive!, Harmony, Nitron, Johnny's, Smith & Hawken, Peaceful Valley, Charley's (Safer Insecticidal Soap, Concern) • Certis (DES-X) • Peaceful

With pyrethrin:

Woodstream, Harmony, Planet Natural (Safer Yard and Garden, Safer Tomato and Vegetable) • Peaceful (Safer)

Pyrethrin:

Roxide • Whitmire (PT 175 microencapsulated, PT-565, PT-505 XLO) • Neogen (Formula 66, LD 44Z) • Monterey (Bug Buster O, w/o PBO) • Bayer (Harmonix)

Repellent Garlic Spray:

Garlic Research Labs, (Garlic Barrier) • Harmony • Peaceful Valley •



Soil Technologies (Garlic Gard)

Silica Aerogel:

100% Pure:

Cabot (Cab-O-Sil) (Must order 10 pound minimum) • Degussa (Wessalon S., Aerosil 380) (Must order 25 pound minimum)

With pyrethrin:

Bayer ES, Target (Drione) • Whitmire (PT 239 Tri-Die) • Univar

APHIDS

Identification & Monitoring

Monitoring Traps:

Gardens Alive!, Great Lakes, Olson, Gemplers, Trécé (Pherocon) • Consep, Harmony, Gemplers • Natural Insect Control • Peaceful Valley • Phero Tech

Physical Controls

Barriers & Exclusion Devices:

Gardens Alive! • Planet Natural (Bug Blaster)

Reflective mulch:

Mipco • Peaceful

Row Covers:

Gardener's Supply • Gardens Alive! (Super-Light) • Great Lakes (Fiberweb) • Harmony (Harvest Guard, Tufbell) • Peaceful Valley (Tufbell, AgGro) • Shepherd's (AgGro) • Mipco • Fiberweb • Natural Insect Control

Screening:

Green-Tek • Hydro-Gardens (Fly Barr) • Tipper, Harmony (Tie-Net)

Sticky Adhesive:

Seabright, Charley's, Great Lakes, Harmony, Phero Tech, (Stickem Special) • ARBICO, Planet Natural, Great Lakes, Harmony, Natural Insect Control, Gemplers, Tanglefoot (Tangle-Trap) • Peaceful Valley

Sticky Trap/Tape:

ARBICO • Gardens Alive • Great Lakes, Olson, Gemplers (Yellow Sticky Traps & Tapes) • Seabright (Sticky Traps) • Phero Tech • Great Lakes, ARBICO, Planet Natural, Gemplers (Versagard) • Peaceful Valley • Harmony • Springstar • Nature's Control • Woodstream

Traps:

ARBICO • Planet Natural • Gardens Alive! • Great Lakes • Harmony • IPM Labs • Natural Insect Control • Gemplers • Peaceful Valley • Greenmethods • Olson • Phero Tech

Biological Controls

Habitat:

Greenhouse banker plants: IPM Labs

Beneficial Seed Blend (for plants that attract beneficial insects:

Harmony • Peaceful Valley • Lockwood • Rincon-Vitova • Cornflower Container-grown beneficial plants: Cornflower

Attractant for lady beetles:

Woodstream, Harmony, Santa Cruz Hort, ARBICO, Peaceful Valley, Great Lakes, The Natural Gardening (SureFire) • Greenmethods (Ladybug lure) • Springstar • Gardens Alive • AgBio (Magnet)

Microbial Insecticides:

Beauveria bassiana (fungus for aphid control): Troy, Gardener's Supply, Hydrogardens (Naturalis O, L, ES) • Laverlam, Bioworks (Mycotrol, Botanigard) • Greenmethods • Peaceful Valley

Chromobacterium (Grandevo): Marrone

Paecilomyces sp. (fungus for aphid control): Bio Pré • HydroGardens • BioBest • Certis (PFR-97)

Verticillium lecanii (fungus for greenhouse use):

Koppert (Mycotal, Vertalec)

Parasitoids:

Aphelinus abdominalis: Biobest • Duclos • Koppert • Natural Insect Control • Rincon Vitova • Greenmethods • Biobest Canada • Arbico
Aphidius colemani: (for cotton aphid): Biological Control • Biobest • Biobest Canada • Syngenta Bioline • International Technology • IPM Labs • Koppert • Natural Insect Control • W. Neudorff • Greenmethods • BioBee • Martin Grima • Rincon Vitova • Garta • Florikan • Katz • M&R Durango • Arbico

Aphidius ervi (for potato aphid): Bio Pre • Biobest • Koppert • W. Neudorff • IPM Labs • Natural Insect Control • Garta • Greenmethods • M&R Durango • Arbico

Aphidius matricariae: Applied Bionomics • Evergreen • Syngenta Bioline • Gartneri • IPM Labs • Koppert • Nature's Control • W. Neudorff • Greenmethods • Rincon Vitova • Natural Insect Control

Aphidius sp.: Biological Crop • Greenmethods • Biobest Canada

Episyrphus balteatus: Flora • Katz

Lysiphlebus testaceipes: • Flora • Katz

Praon myzophagum: Biowise

Tamarixia triozae (for psyllids): International Technology

Predators:

aphid midge, *Aphidoletes aphidimyza*: ARBICO • Applied Bionomics • Biobest • Biological Crop • Bio Pre • Evergreen • Planet Natural • Budai • Syngenta Bioline • Biowise • Gartneri • Hydro-Gardens • International Technology • IPM Labs • Koppert • Natural Insect Control • Nature's Control • Rincon-Vitova • Sautter & Stepper • Greenmethods • W. Neudorff • Flora • BioBee • Katz • Biobest Canada • Ecosolutions

Lacewings:

Chrysoperla carnea or *Chrysopa carnea*: A-1 Unique • Biological Crop • Bioplanet • Greenmethods • Gartneri • Gardens Alive • Koppert • Kuida • Natural Insect Control • Natural Pest Controls • Organic Control • Peaceful Valley • Sautter & Stepper • W. Neudorff • American Insectaries • Katz • TipTop • Nature's Control

Chrysoperla rufilabris or *Chrysopa rufilabris*: ARBICO • Biofac • Planet Natural • IPM Labs • Kuida • M & R Durango • Natural Insect Control • Nature's Control • Peaceful Valley • Rincon-Vitova • Western Farm • Greenmethods • American Insectaries

Chrysoperla spp.: Beneficial Insectary • International Technology • Kunafin • Flora • Buena

Mallada signata: Bugs for Bugs

Micromerus variegatus: Applied Bionomics

Symphorobius sp.: FAR

Lady beetles:

Convergent lady beetle, *Hippodamia convergens*: A-1 Unique • ARBICO • Biofac • Buena • Evergreen • Planet Natural • Gardens Alive • Hydro-Gardens • International Technology • IPM Labs • Koppert • M & R Durango • Natural Insect Control • Natural Pest Controls • Nature's Control • Peaceful Valley • Rincon-Vitova •

Greenmethods • The Ladybug Company • Ladybug Farms • EcoSolutions • Applied Bionomics

Lady beetle, *Coleomegilla maculata*: Florikan

Lady beetle, *Harmonia axyridis*: Biobest, Koppert, Rincon Vitova, Greenmethods, Bioplanet

Lady beetle, *Adalia bipunctata*: Andermatt • Biobest Canada • Natural Insect Control • Biobest USA

Lady beetle, *Pseudoscyrnus tsugae* (for wooly hemlock adelgid): Greenmethods

Lady beetle, *Scymnus creperus*: IPM Labs

Predatory bugs:

Anthocorid, *Anthocoris nemoralis* (pear psyllids): Biobest Canada

Insidious flower bug, *Orius insidiosus*: IPM Labs • Syngenta Bioline • Gartnerei • Nature's Control • Rincon Vitova • Katz • Flora

Orius laevigatus: Bioplanet

Orius spp.: Biobest • Duclos • Natural Insect Control • Syngenta Bioline

Minute pirate bug, *Orius tristicolor*: ARBICO • Planet Natural

Mirid bug, *Deraeocoris brevis*: Applied Bionomics

Least-Toxic Chemical Controls

Clove Oil, Garlic, Cottonseed Oil:

JH BioTech, Harmony (Pest Out) • Safer Gro

Aphid Alarm Pheromone:

ARBICO

Diatomaceous Earth: See Ants

Enzyme Soap: Charley's (Agrizyme)

Insect Growth Regulators:

Zoecon (Enstar)

Insecticidal Oil:

Highly refined oil (from fish):

Peaceful Valley • Organic Labs (Organocide, 95% fish, 5% sesame)

Highly refined oil (from petroleum):

Monterey, Harmony (Saf-T-Side) • Valent USA, Harmony (Volck) • Sun, Gardens Alive!, Harmony, Peaceful Valley, Charley's (Sunspray) • Greenmethods • Florikan (Target Oil) • Gardens Alive (Eco-Oil) • Summit • Peaceful Valley

Highly refined oil (from plants):

Stoller, Peaceful Valley (Natur'l Oil 93% soybean) • ARBICO (Spreadall 93% cottonseed) • Gardens Alive • Planet Natural, Harmony, Monterey (Erase, jojoba oil) • Soil Technologies (jojoba)

Insecticidal Soap:

Harmony (M-Pede) • Agricola El Sol (ACT-92) • Woodstream (Concern) • Woodstream (Safer Rose and Flower, Insecticidal Soap, Fruit and Vegetable) • Greenmethods • St. Gabriel (Sharpshooter) • Certis (DES-X) • Peaceful Valley

With pyrethrin:

Woodstream (Concern) • Woodstream, Gardens Alive!, Harmony, Nitron (Safer Yard and Garden, Tomato and Vegetable) • Peaceful Valley (Safer)

Neem Products:

Certis, Harmony (Azatin) • Woodstream, Harmony, (Safer's BioNeem, Japanese Beetle Repellent) • Certis, Planet Natural, Peaceful Valley, Harmony (Neemix, Trilogy) • Green Light • San Jacinto (Organica) • PBI (Azatrol) • Agro (AZA Direct, EcoSense, EcoSide) • Gowan (AZA) • Bioworks • Certis (Neemazad) • Agro, Peaceful (DeBug)

Pyrethrin:

Johnny's, Peaceful Valley (Pyrenone) • Whitmire (microencapsulated PT-175 MicroCare, PT 565, PT 505) • Neogen (Formula 66, LD-44Z) • Peaceful Valley (Py-Rin, w/o PBO) • Monterey, Harmony (Bug-Buster O, w/o PBO) • MGK, Peaceful, Monterey, Harmony (PyGanic)

Pyrethrin and Oil:

Gardens Alive (Pyola) • Harmony (Pyola)

Pyrethrin, rotenone, copper, sulfur:

Bonide, Gardener's Supply (Bonide Garden Dust)

Pyrethrin and Neem: MGK (Azero)

Pyrethrum Powder:

Planet Natural • Nichols Garden

Repellent Garlic Spray:

Garlic Research Labs, Chemical-Free, Planet Natural, (Garlic Barrier) • Soil Technologies (Garlic Gard) • Peaceful Valley • Vegetable Juices (Pure Garlic Oil) • JH Biotech • Safer Gro • Harmony

Repellent Mustard Oil:

Soil Technologies

Repellent Hot Pepper Wax:

Charley's • Harmony (Hot Pepper Wax) • Peaceful Valley • St. Gabriel

Sabadilla Powder:

Gardens Alive! • MGK, Harmony, Peaceful Valley (Veratran) • Nichols Garden • MGK

BEES

(See Yellow Jackets)

BEETLES

(Crop and Stored Product Pests)

Identification & Monitoring

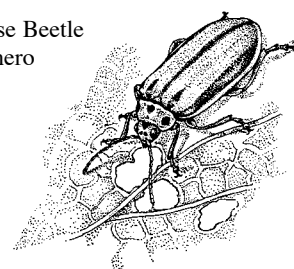
Attractant for Cucumber Beetle:

Sigma Chemical (eugenol) • Trécé (CIDETRAK CRW)

Pheromones & Traps:

For agricultural & horticultural insects:

Woodstream, Gardens Alive! (Safer Japanese Beetle Trap, Surefire) • Gemplers, Great Lakes, Phero Tech (Wing Trap I and II, Unitrap, Delta Traps) • Scentry, Gemplers, Great Lakes, ARBICO, Planet Natural (Scentry) • Phero Tech (Phero Tech Lures) • Scentry, Great Lakes, ARBICO, Planet Natural, Gemplers, Natural Insect Control (Delta & Wing Trap) • Trécé, Gardens Alive!, Great Lakes, Olson, Gemplers (Pherocon) • Harmony (Catch-em) • Suterra, ARBICO, Insects Ltd., Great Lakes, Intagra, Santa Cruz Hort, Harmony, Gemplers (BioLure) • Hercon, Great Lakes (Luretape) • Tomagro (TomaAttract) • AgBio (Oriental, Cucumber Beetle)



For forestry insects:

Phero Tech (Phero Tech Lures)

For Japanese beetle:

Trécé, Gardens Alive, Great Lakes, Olson, Harmony • Phero Tech • Sterling • Woodstream, Harmony, Great Lakes (Safer) • Tanglefoot • Springstar

For pepper weevil:

Trécé, Gardens Alive, Great Lakes, Olson, Harmony (Pherocon PEW)

For stored product insects:

Great Lakes (Trappit Insect Probe) • Woodstream, Santa Cruz Hort, ARBICO, Great Lakes, Necessary, Gemplers (Safer) • Trécé, Gardens Alive, Great Lakes, Olson, Harmony, Gemplers (Storgard, WB Probe II for weevils) • Trécé (Dome for confused flour beetle) • Trécé (Dome for cigarette beetle) (Storgard II and III) • Insects Ltd.

Physical Controls

Controlled Atmosphere System (for stored grains):

The Aerogen • Air Products (Prism System)

Row Covers:

Great Lakes (Fiberweb) • Gardener's Supply, Gardens Alive! (Floating Row Covers) • Gardens Alive! (Super-Light Insect Barrier) • Harmony (Harvest Guard, Tufbell) • Peaceful Valley (Tufbell, AgGro) • Mipco

Spiked lawn aerator sandals

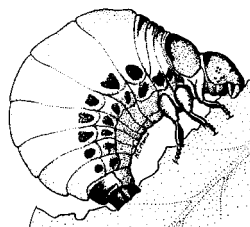
(for white grub control):

Gardener's Supply • Planet Natural

Traps and Sticky Tape:

Sterling Intl. (Japanese Beetle Trap)

• Phero Tech (Chroma) • Scentry, Great Lakes, ARBICO, Gemplers (Scentry) • Peaceful Valley • AgBio (oriental beetle) • Gardener's Supply (Asian LB Trap)



Biological Controls

Seed mix to attract beneficial insects:

Lockwood, Harmony, Peaceful Valley, Rincon-Vitova

Syringe for nematode injection (for borers): Gardens Alive

Insect-Attacking Nematodes:

Heterorhabditis bacteriophora: BioLogic • IPM Labs • Andermatt • Natural Insect Control • Plant Health Care • Koppert • Peaceful Valley
Heterorhabditis megidis: Andermatt • Biological Crop • Biobest • International Technology • W. Neudorff • Plant Sciences
Heterorhabditis spp.: Syngenta Bioline • Biowise • Hydro-Gardens • M & R Durango • Natural Insect Control • Nature's Control • W. Neudorff • Peaceful Valley

Heterorhabditis marelatus: Evergreen • BioLogic

Steinernema carpocapsae: Biological Crop • Biofac • BioLogic • Planet Natural • Gardens Alive! • Hydro-Gardens • IPM Labs • M & R Durango • Natural Insect Control • Peaceful Valley

Steinernema feltiae: BioLogic • International Technology • IPM Labs • Koppert • Natural Insect Control • W. Neudorff *Steinernema feltiae* and *Heterorhabditis* sp. (mix): North Country (Grub Gard)

Steinernema riobravisi: Harmony

Steinernema kraussei: Becker Underwood

Microbial Insecticides:

Bacillus thuringiensis (BT) for beetle larvae:

Bonide, Gardener's Supply (Bonide) • Johnny's, Harmony (Colorado Potato Beetle Beater)

Bacillus thuringiensis tenebrionis (BTT):

Valent USA, Peaceful Valley (Novodor) • Gardens Alive (Potato Shield)

Bacillus popilliae (milky spore disease):

St. Gabriel, Gardener's Supply, North Country (Milky Spore)

Beauveria bassiana (fungus for grubs):

Troy, Hydrogardens, Planet Natural, Peaceful Valley (Naturalis T)

Metarhizium anisopliae (black vine weevil): NovoZymes (MET52)

Chromobacterium (beetle grubs): Marrone (Grandevo)

Insecticidal oil spreader-sticker used with BT:

Monterey (Nature's Own)

Parasitoids:

Anaphes spp. (for cereal leaf beetle): Rincon-Vitova

Anisopteromalus calandrae (stored product beetles): ARBICO • Biofac

Pediobius foveolatus (for Mexican bean beetle): ARBICO • IPM Labs • Rincon Vitova

Predators:

spined soldier bug, *Podisus maculiventris* (for CO potato beetle):

ARBICO • Bug Factory • Rincon-Vitova • Greenmethods

warehouse pirate bug, *Xylocoris flavipes* (for stored product beetles):

• Biofac • Natural Insect Control

Least-Toxic Chemical Controls

Borate-Based Insecticides:

Whitmire (PT 249) • Nisus (Niban, Niban FG)

Diatomaceous Earth: See ANTS

Epazote (*Chenopodium ambrosioides*)

for protection against stored product beetles:

Nichols Garden • J.L. Hudson

Garlic Repellents:

Garlic Research Labs, Chemical-Free (Garlic Barrier) • Soil Technologies (Garlic Gard) • Harmony (Guardian) • Vegetable Juices (pure garlic oil) • JH Biotech (Bio Repel)

Mustard and Chili Oil Repellent:

Soil Technologies (Valoram, Armorex)

Insect Growth Regulators (for beetle grubs):

Dow Agro (halofenzimide, Mach-2) • O.M. Scott (Grub-EX)

Insecticidal Soap (for flea beetle):

Woodstream, Peaceful Valley, Harmony (Concern, Safer) • Peaceful Valley (K-Neem)

With pyrethrin:

Woodstream, Gardens Alive!, Harmony, Nitron (Safer Yard and Garden) • Peaceful Valley

Neem Products:

Certis, Planet Natural (Azatin) • Woodstream, Gardener's Supply, Peaceful Valley, The Natural Gardening (Surefire Japanese Beetle Repellent) • Woodstream, Peaceful Valley (Safer's BioNeem) • Certis, Harmony, Peaceful Valley (Neemix, Trilogy) • Gardens Alive (Neem-Away) • Green Light, Harmony (Rose Defense) • San Jacinto (Organica) • PBI (Azatrol) • Agro, Peaceful Valley (DeBug) • Gowan (AZA) • Bioworks (Molt-X)

Pyrethrin and Neem: MGK (Azera)

Pyrethrin:

Roxide • Whitmire (microencapsulated PT-175 MicroCare, PT 565, PT 505) • Johnny's, Peaceful Valley (Pyrenone) • Neogen (Formula 66, LD-44Z) • Peaceful Valley (Py-Rin, w/o PBO) • Monterey, (Bug Buster O, w/o PBO) • MGK, Peaceful, Harmony (PyGanic)

Pyrethrin, rotenone, copper, sulfur:

Bonide, Gardener's Supply (Bonide Garden Dust)

Pyrethrum Powder:

Nichols Garden • Harmony • Planet Natural

Rotenone:

Bonide

Sabadilla:

MGK, Harmony (Veratran) • Peaceful Valley

Silica Aerogel: See ANTS

Spinosad Microbial Isolate (leaf beetles):

Dow Agro (Entrust) • Gardens Alive (Bulls-eye) • Monterey • Harmony



BEETLES

(Structural Pests)

Identification & Monitoring

Trained Dogs (for detection):

American K-9 • Florida Canine

Physical Controls

Electrical Treatment (for drywood termite & boring beetles):

ETEX (Electrogun)

Heat Treatment:

TPE/Thermapure (Call for local practitioners) • In Denmark (Tanaco) • In England (Thermo Lignum) • Topp (Heaters)

Microwave Treatment:

Bio-Integral Resource Center (Call for local referrals)

Microwave Equipment:

Professional Equipment

Least-Toxic Chemical Controls

Borate Rods:

Pole Care, Nisus (Impel Rods)

Borate Termiticide & Wood Preservative:

NISUS, Target, Univar (Bora-Care) • Permashink (Guardian, Shellguard) • Sashco (Penetreat) • NISUS (TimBor) • NovaGuard

Borate Treated Lumber and Building Material:

Osmose

Borate Treated Logs:

Appalachian • Lok-N-Logs

BLACKFLY

(See Mosquitoes)

BORERS

(See Beetles)

BUGS

(Hemipterans)

Identification & Monitoring

Pheromones & Traps:

Trécé, Gardens Alive!, Great Lakes, Olson, Gemplers (Pherocon) • Phero Tech • Peaceful Valley • AgBio (stink bug trap) • Sterling (Stink Bug Trap)

Physical Controls

Asian ladybug traps: Springstar • Gardens Alive

Bed Bug Traps:

Susan McKnight • BioSensory • Termite Detection

Screening:

Tipper, Harmony, Peaceful Valley (Tie-Net)

Row Covers:

Great Lakes (BBA) • Gardens Alive (Super-Light) • Gardener's Supply, Gardens Alive (Floating Row Covers) • Harmony (Tufbell, Harvest Guard) • Peaceful Valley (Tufbell, AgGro) • Mipco • Gemplers

Heat for Bedbugs:

Thermapure • PestHeat • Tempair (Thermal Remediation)

Vacuum:

BioQuip • Proteam (Sierra)

Horticultural Controls

Beneficial Seeds and Plants:

Cornflower • Harmony • Lockwood

Insect-Resistant Turfgrass:

Endophytic Ryegrass (repels billbugs & caterpillars):

Pennington (Repell, Repell II, Yorktown III, Palmer II, Prelude II) • Turf Seed (Citation II, Birdie II, Omega II, CBS II, Manhattan II, Charger, Quickstart, 246 Sunrye) • Turf Seed (Sunrye) • Gardens Alive (Turf-Alive) • Turf Seed (Citation III, Bright Star, Catalina, Navajo, Road Runner) • Peaceful Valley

Endophytic tall fescue (repels billbugs):

Turf Seed (Apache, Tomahawk) • Pennington (Jamestown II, Reliant) • Peaceful Valley

Biological Controls

Stink Bug Attractant (Sterling)

Microbial Insecticides:

Chromobacterium (stinkbug): Marrone (Grandevo)

Entomopathogenic fungus:

Beauveria bassiana (for chinch bugs): Troy, Hydrogardens, Gardener's Supply (Naturalis T) • Laverlam, BioWorks (Botanigard) • Peaceful Valley

Metarhizium anisopliae (for meadow spittlebug, coffee leafminer):

Agricola El Sol • Bio Pre

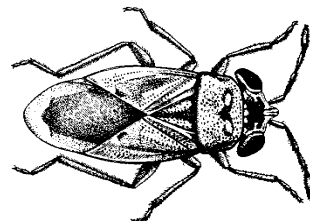
Parasitoids:

Pristenius relictus (for lygus bug):

Rincon-Vitova

Predators:

spined soldier bug, *Podisus maculiventris* (for CO potato beetle, bugs general, caterpillar general): ARBICO • Gardens Alive! • Natural Insect Control • Bug Factory • Rincon-Vitova • Greenmethods
predatory bug, *Deraeocoris brevis* (for lygus bug): Applied Bionomics



Least-Toxic Chemical Controls

Borate-Based Insecticides:

Whitmire (PT 249 Perma-Dust) • Nisus (Niban bait)

Diatomaceous Earth: See ANTS

Garlic-based repellent:

Soil Technologies (Garlic Gard) • Harmony, Peaceful Valley (Guardian) • Garlic Research (Garlic Barrier)

Insecticidal Soap:

Woodstream (Concern) • Woodstream (Safer) • Peaceful Valley (K-Neem) • Certis (DES-X)

With pyrethrin:

Woodstream (Safer Yard and Garden, Safer Tomato and Vegetable) • Woodstream (Concern Multi-purpose) • Peaceful Valley

Hydroprene IGR for bedbugs:

Zoecon (Gentrol)

Neem for Bedbugs: Terramera (Cirkil)

Neem Products:

Certis, Planet Natural, Nitron, Johnny's (Azatin) • Woodstream, Harmony (Safer's BioNeem) • Certis, Peaceful Valley, Harmony (Neemix, Trilogy) • Green Light (Rose Defense) • PBI (Azatrol) • Agro (EcoSense) • Gowan (AZA) • Bioworks (Molt-X) • Agro (DeBug)

Pyrethrin:

Whitmire (PT 175 microencapsulated, PT-565, PT-505 XLO) • Johnny's, Peaceful Valley, (Pyrene) • Neogen (Formula 66, LD-44Z) • Bayer ES (Kicker, Drione) • Peaceful Valley (Py-Rin, w/o PBO) • Monterey, Harmony (Bug Buster O, w/o PBO) • MGK (PyGanic)

Pyrethrin and Oil:

Gardens Alive (Pyola) • Harmony (Pyola) • Monterey (Take Down)

Pyrethrin, rotenone, copper, sulfur:

Bonide, Gardener's Supply (Bonide Garden Dust)

Pyrethrin and Neem:

 MGK (Azera)

Sabadilla:

Planet Natural • Peaceful Valley • MGK, Harmony (Veratran)

Silica Aerogel:

 See ANTS

CATERPILLARS

Identification & Monitoring

Pheromones & Traps:

For agricultural & horticultural insects: delta, dome, diamond, funnel, jackson, and wing traps

Great Lakes, Gemplers (Multi-Pher, Unitrap, Delta Traps) • Phero Tech, Great Lakes (Unitrap) • Scentry, Gemplers, Great Lakes, ARBICO, Planet Natural (Scentry) • Suterra, Harmony, Planet Natural, Gardens Alive, Peaceful Valley, The Natural Gardening (BioLure) • Phero Tech (Phero Tech Lures) • Scentry, Great Lakes, ARBICO, Planet Natural, Natural Insect Control (Delta & Wing Trap, Heliothis Trap) • Trécé, Gardens Alive!, Great Lakes, Olson, Gemplers (Pherocon) • ARBICO, Harmony (Catch-em) • Peaceful Valley • Hercon • San Jacinto • Tanglefoot (Codling Moth) • Tomagro • Isca Technologies • Trece (Pherocon, codling moth and others)

For forestry insects:

Phero Tech (Phero Tech Lures)

For stored product insects:

Woodstream, Santa Cruz Hort, ARBICO, Peaceful Valley, Great Lakes, Necessary, Gemplers (Pheromone Traps, Safer) • Phero Tech (Phero Tech Lures) • Trécé, Gardens Alive, Olson, Great Lakes, Harmony, Peaceful Valley (Storgard) • Woodstream, Santa Cruz Hort (Clothes Moth Pheromone) • Springstar • Certis, Harmony (Clothes Moth) • Woodstream (Pantry Pest Pheromone) • Springstar (Clothes Moth) • Insects Ltd. • Trece (Storgard Quick Change Dome) • Trece (Storgard II) • Trece (Storgard III)

Physical Controls

Controlled Atmosphere System (for stored grains):

The Aerogen • Air Products (Prism System)

Mineral Coating to Protect Fruit:

 BASF, Peaceful Valley, Gardens Alive (Surround) • Certis

Row Covers:

Great Lakes (Fiberweb) • Gardens Alive! (Super-Light) • Gardener's Supply, Gardens Alive, (Floating Row Covers) • Harmony (Harvest Guard, Tufbell) • Peaceful Valley (Tufbell, AgGro) • Mipco

Sticky Barrier:

Tanglefoot, Planet Natural, Gardens Alive!, Great Lakes, Harmony, Phero Tech, Peaceful Valley (Tanglefoot)

Sticky Trap/Tape:

For stored product insects:

Santa Cruz Hort (Wing & Delta Traps) • Peaceful Valley • Agro Biotech • Phero Tech

For agricultural & horticultural insects:

Scentry, Great Lakes, ARBICO, Planet Natural, Gemplers (Scentry Gypsy Moth Trap) • Peaceful Valley • Phero Tech • Tomagro • Tanglefoot • Crop Production (Hopper Finder)

Traps:

Woodstream, Harmony, Peaceful Valley, The Natural Gardening (Gypsy Moth Trap) • Ladd, Planet Natural (Red Sphere Fruit Fly) • Woodstream, Harmony, Great Lakes, The Natural Gardening (SureFire Codling Moth) • Sterling (Smart) • Springstar

Tree Wrap:

Olson (Sticky Tree Guards) • Planet Natural, Peaceful Valley (Bug Belt) • Phero Tech • Tanglefoot

Horticultural Controls

Insect-Resistant Turfgrass:

Endophytic Ryegrass (repels billbugs & caterpillars):

Pennington (Repell, Palmer II, Prelude II, Yorktown III) • Turf Seed (Citation II, Birdie II, Omega II, CBS II, Manhattan II, Charger, Quickstart, 246 Sunrye) • Gardens Alive (Turf-Alive) • Peaceful

Endophytic Tall Fescue (repels caterpillars):

Turf Seed (Apache II, Tomahawk, Coronado Gold, Tarheel) • Peaceful

Biological Controls

Attractant for soldier bugs that attack pest caterpillars:

Sterling, Planet Natural, Natural Insect Control (Rescue!)

Seed Mix to Attract Beneficials:

Harmony • Peaceful Valley • Lockwood • Planet Natural • Gardens Alive • Rincon-Vitova • Cornflower (also plants)

Seeds for plants to repel pest Lepidoptera:

Shepherd's (sweet basil) • Nichols Garden, J.L. Hudson (epazote) • Park Seed (holy basil)

Seeds for California Native Plants:

Pacific Coast Seed

Bat Houses to Attract Moth-Eating Bats:

Greenmethods • Natural Insect Control • Peaceful Valley • Planet Natural • Arbico

Insect-Attacking Nematodes:

Heterorhabditis bacteriophora: BioLogic • IPM Labs • Natural Insect Control • Andermatt

Heterorhabditis marelatus: BioLogic

Steinernema carpocapsae: BioLogic, IPM Labs, Natural Insect Control, Peaceful Valley

Steinernema feltiae: BioLogic, IPM Labs, Natural Insect Control

Steinernema riobravisi: Harmony • Becker Underwood

Syringes for nematode injection (for borers):

Gardens Alive • Natural Insect Control

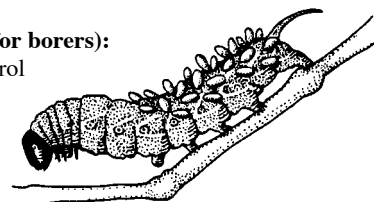
Microbial Feeding Stimulant:

Peaceful Valley

Microbial Insecticides:

Bacillus thuringiensis (BT):

Valent USA, Peaceful Valley, Johnny's, Greenlight (Dipel, Dipel 4L, 2X, 10G, ES, Xentari WDG) (Topside Dipel) • Koppert (Bactospeine) •



Nitron (Caterpillar Killer) • ARBICO • Planet Natural • Agricola El Sol (BST-88, BST-88A) • Certis (Foil)

***Bacillus thuringiensis aizawai* (BTA):**

Valent USA (Xentari, Florbac) • Certis (Agree)

***Bacillus thuringiensis kurstaki* (BTK):**

Certis (Condor, flowable) • Valent USA (Biobit, Foray) • Peaceful Valley, Harmony (Caterpillar Attack, Vegetable Insect Attack) • Certis, Peaceful Valley, Harmony (Javelin WG, CoStar) • Planet Natural • Plant Health Care, Certis (Crymax) • M & R Durango

BT protein encapsulated in *Pseudomonas*:

Certis, Gardens Alive (M-Peril, M-Trak, Match, MVP-II)

***Beauveria bassiana* for soil and turf (sod webworm):**

Troy, Hydro-Gardens, Gardener's Supply (Naturalis-T) • Laverlam, Bioworks (Botanigard) • Peaceful Valley

Chromobacterium (Grandevo): Marrone

Insecticidal spreader-sticker oil for BT:

Monterey (Nature's Own)

***A. orana* granulosis virus (for leafroller):**

Andermatt (Capex)

Codling moth granulosis virus:

Andermatt (Madex) • Certis (Cyd-X) • Peaceful Valley

NPV (from alfalfa looper or celery looper):

Certis (call for availability)

NPV from *H. zea* (for caterpillars):

Certis (Gem-Star)

NPV (nucleopolyhedrosis virus) (for gypsy moth):

Agricola El Sol (VPN-80, VPN-82) • U.S. Forest Service, USDA

NPV (nucleopolyhedrosis virus) (for beet armyworm):

Certis (Spod-X)

Parasitoids:

Anisopteromalus calandrae (stored product): Biofac

Blepharipa schineri (parasitic fly for gypsy moth): USDA Rearing Lab

Bracon hebetor (for stored product moth): Biofac • Arbico • Natural Insect Control

Cotesia plutellae (for diamondback moth): ARBICO • Biofac

Goniozus legneri (for navel orangeworm, omnivorous leafroller):

ARBICO • Beneficial • California BioWorks • Kuida • Rincon Vitova

Orgilus lepidus (for potato tuber moth): Bugs for Bugs

Pentalitomastix plethoricus (for navel orangeworm):

California BioWorks

Trichogramma brassicae: Beneficial • IPM Labs • Koppert • Nature's Control • Rincon Vitova • Greenmethods

Trichogramma carverae: Bugs for Bugs

Trichogramma evanescens (for moth): Koppert

Trichogramma minutum (for Eastern U.S. orchards): ARBICO • Beneficial Insectary • Biofac • Planet Natural • International Technology • IPM Labs • Nature's Control • Peaceful Valley • Rincon Vitova • Greenmethods

Trichogramma ostrinae: Beneficial Insectary • IPM Labs

Trichogramma platneri (for Western U.S. orchards): ARBICO • Beneficial • Planet Natural • Kuida • Rincon-Vitova • Peaceful Valley • International Technology • M & R Durango • FAR

Trichogramma pretiosum (for moth eggs in vegetable & field crops):

ARBICO • Beneficial • Biofac • Planet Natural • FAR • Gardens Alive! •

Kuida • M & R Durango • Nature's Control • Rincon-Vitova • Peaceful Valley • Greenmethods • Bugs for Bugs

Trichogramma spp. (for moth eggs in vegetable & field crops):

Beneficial Insectary • Conrad Appel • KWS • Kunafin • Natural Insect Control • Natural Pest Controls • Organic Control • Peaceful Valley • The Natural Gardening • Arnold Brothers • Natural Enemy • Hydrogardens

Trichogrammatoidea bactrae (for moth egg in fields & orchards, pink bollworm): Greenmethods

Predators:

predatory bug: *Deraeocoris brevis*: Applied Bionomics • Natural Insect Control

spined soldier bug, *Podisus maculiventris*: ARBICO • Natural Insect Control • Bug Factory • Rincon Vitova • Greenmethods

warehouse pirate bug, *Xylocoris flavipes*: (for stored product moths): ARBICO • Planet Natural • Biofac • Natural Insect Control

Least-Toxic Chemical Controls

Botanical Repellents:

Renee's (sweet basil seeds) • Park Seed (holy basil) • Nichol's Garden, J.L. Hudson (epazote) • Soil Technologies (Garlic Gard) • Gardens Alive (Herbal Moth Repellent) • Garlic Research, Harmony, San Jacinto (Garlic Barrier) • Peaceful Valley • JH Biotech

Diatomaceous Earth: See ANTS

Insecticidal Soap: See APHIDS

Insect Growth Regulators (IGRs):

Syngenta (fenoxycarb, Comply, Precision) • Rohm and Haas (tebufenozide, Confirm)

Microbial Isolate (Spinosad):

Dow, Green Light (Entrust) • Gardens Alive (Bulls-Eye) • Monterey • Harmony • Peaceful Valley

Neem Products:

Certis, Planet Natural, Greenmethods (Azatin) • Woodstream, Harmony, Peaceful Valley (Safer's BioNeem) • Certis, Harmony, Peaceful Valley (Neemix, Trilogy) • Green Light, Gardener's Supply (Green Light) • Agro (Agroneem) • Gowan (AZA) • Bioworks (Molt-X)

Pheromone Mating Disruptants:

Checkmate for codling moth, tomato pinworm, oriental fruit moth, pink bollworm, peach tree borer; Puffer or Paramount aerosols for NOW, OFM, codling moth; Isomate for codling moth, oriental fruit moth, greater and lesser peach tree borer, oblique-banded leafroller, pandemis leafroller, pink bollworm; NoMate for tomato pinworm, pink bollworm, tufted apple bud moth, oriental fruit moth, codling moth, omnivorous, obliquebanded, and pandemis leafrollers; Disrupt for peach twig borer, oriental fruit moth, codling moth, and gypsy moth.

Manufacturers and suppliers are:

Suterra, Harmony, Great Lakes, Harmony, ARBICO, Peaceful Valley (Checkmate) • Suterra (Puffer, Paramount) • Pacific Biocontrol, Great Lakes, Harmony, Peaceful Valley (Isomate) • Scentry, Great Lakes, ARBICO, Planet Natural (NoMate) • Scentry, Great Lakes, ARBICO, Planet Natural, Gemplers (Attract & Kill, NoMate PBW-MEC for pink bollworm) • Hercon, Great Lakes (Disrupt) • Trece (Cidetrak, Codling Moth, OFM) • Trece (Cidetrak, Indianmeal moth)

Pheromone Lures for many Lepidoptera:

Trécé (Pherocon) • Tomagro (TomaAttract) • Great Lakes IPM • Suterra (BioLure) • Phero Tech • Isca Technologies • Suterra (Scenturion) • AgBio

Pyrethrin:

Roxide • Whitmire (PT 175 microencapsulated, PT-565, PT-505 XLO) • Waterbury (Purge III) • Monterey, Harmony (Bug-Buster-O, w/o PBO) • MGK, Peaceful, Harmony (PyGanic)

Pyrethrum powder:

Nichol's Garden • Harmony

Rotenone:

Bonide

Sabadilla:

MGK, Harmony, Peaceful Valley (Veratran)

Silica Aerogel: See ANTS

COCKROACHES

Identification & Monitoring

Flashlight with Red Filters:

Streamlight

Pheromone Trap:

Woodstream (Victor)

Physical Controls

Caulk:

Hardware Store

Teflon barrier protects pet food bowls:

See hardware store for Teflon tape

Traps:

Woodstream (Victor, sticky) • Great Lakes (AgriSense)

Pheromone Trap:

Woodstream

Glue board trap:

Bell (Trapper) • Woodstream

Trap & attractant:

Woodstream, Harmony, ARBICO, Peaceful Valley, Great Lakes (The Dungeon) • Seabright (Safe Stop) • Woodstream (Victor, pheromone) • Springstar

Vacuums:

Proteam (Sierra, Optimus)

Biological Controls

Parasitoids:

Anastatus tenuipes: Rincon-Vitova • PNE

Aprostocetus hagenowii: Bio Pre • PNE • Rincon-Vitova

Comperia merceti: Rincon-Vitova • PNE

Least-Toxic Chemical Controls

Baits:

Abamectin dust or spray:

Whitmire (Avert PT-300, PT-310) • Gardens Alive!

Abamectin gel bait:

Whitmire (Avert 320)

Borate-based bait:

NISUS (NIBAN Granular Bait, Niban FG) • Blue Diamond

Manufacturing (for bait gun) • Seabright (Roach Free) • Waterbury (50% boric acid, CB Attrax) • Blue Diamond (ProJoe)

Dinotefuran bait: BASF (Alpine)

Indoxacarb bait: Dupont (Advion)

Hydramethylnon bait stations (child-resistant):

Bayer ES (Maxforce, Combat)

Fipronil bait stations (child resistant):

Bayer ES (Maxforce)

Hydramethylnon gel bait:

TopPro, Target, Univar (Siege) • Zoecon (Matrix)

Sulfluramid bait station:

S.C. Johnson (Raid Max)

Bait Attractant:

Rockwell (Invite)

Bait gun: Specialty Products • Target • Whitmire

Botanical Sprays:

Orange Guard, Univar, Target (orange oil) • Woodstream (Mint Oil) • EcoSmart (herbal oil)

Drain Cleaner, Degreaser Microbial to Remove Cockroach Food:

American Bio-Systems (Bio-Mop) (Drain Gel)

Dust applicators:

Parker Pest (Pest Machine) • Peaceful Valley (Pest Pistol)

Borate-Based Insecticides:

Organic Control (Ant-T-Roach) • Enforcer (Roach Ridd) • Waterbury (Mop-Up, Roach-Kil, Borid) • Whitmire (PT 249) • Copper Brite, Harmony (Roach Prufe) • Woodstream (Victor) • J.T. Eaton • NISUS (Nibor) • Nisus (Boracide)

Diatomaceous Earth:

Natural Insecto, Natural Insect Control (Insecto w 10% food bait) • Woodstream (SureFire) • Hedley Technologies (Insecolo w 3% food bait) • Hedley Technologies (Protect-It w 10% silica gel) • Celite • Eagle Picher • Peaceful Valley • JT Eaton (Answer) • Diacore

With pyrethrin:

Permaguard, Nitron (Permaguard) • The Natural Gardening (Insectigone) • Gardens Alive • Organic Solutions

Hydroprene IGR:

Zoecon (Gentrol)

Hydroprene IGR Controlled Release Station:

Zoecon (Point Source)

Pyriproxifen IGR: MGK (NyGard)

Pyrethrin:

Roxide • Whitmire (PT-175 microencapsulated, PT 505, PT 565) • Neogen (Formula 66, LD-44Z) • Bayer (Harmonix)

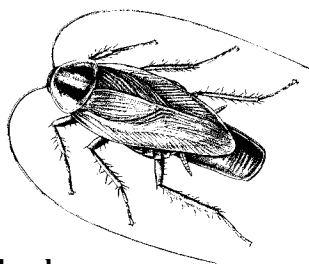
Silica Aerogel:

100% Pure:

Cabot (Cab-O-Sil) (Must order 10 pound minimum) • Degussa (Wessalon S., Aerosil 380) (Must order 25 pound minimum)

With pyrethrin:

Bayer ES, Target (Drione) • Whitmire (PT 239 Tri-Die) • Univar



CRICKETS

(See Grasshoppers)

EARWIGS

Physical Controls

Least-Toxic Chemical Controls

Diatomaceous Earth: See ANTS

Insecticidal Soap: See APHIDS

FLEAS

Physical Controls

Combs:

Gardens Alive!

Vacuums:

Proteam (Sierra, Optimus)

Sticky light traps:

Enforcer Products (Over Nite Flea Trap) • Happy Jack •
Gardens Alive • Springstar (Flea Trap) • Woodstream (Victor)
• Natural Insect Control • Peaceful Valley

Sticky Traps and Tape:

Bell (Trapper) • Olson • Gemplers

Biological Controls

Insect-Attacking Nematodes (outside treatment):

Peaceful Valley • Organic Control • Gardens Alive • Hydrogardens •
Planet Natural • Biologic

Least-Toxic Chemical Controls

Sodium octaborate (carpet treatment):

The Ecology Works (Flea and Mite Control)

Insecticidal Oil:

Citrus or herbal oil extract:

Gardens Alive! (Flea Stop Shampoo) • Orange Guard, Univar, Target
(Orange Guard) • Woodstream (Poison Free) • EcoSmart (Bioganic,
EcoPCO, EcoIPM)

Diatomaceous Earth (minimize exposure to dust, use material with low crystalline silica content):

Natural Animal (EcoZone) • Woodstream • Peaceful Valley • Eagle
Picher (MN-53) • Cellite (Diafil) • Permaguard (food grade) • JT
Eaton (Answer)

With pyrethrin (do not use on cats):

Permaguard, Nitron (Permaguard)

Spot-On Treatments for Pets:

Fipronil flea adulticide:

Merial (Frontline) • Drs. Foster and Smith

Fipronil adulticide with methoprene:

Merial (Frontline Plus) • Drs. Foster and Smith

Nicotine analog flea adulticide:

Bayer Animal (Imidacloprid, Advantage) • Veterinarians

Selamectin flea adulticide:

Pfizer (Revolution)



Insect Growth Regulators:

Lufenuron (oral formulation for pet):

Syngenta (Program) • Drs. Foster and Smith

Methoprene (collars or sprays):

Zoecon (Precor) • Enforcer (FGR)

Methoprene (with permethrin) for fleas (do not use on cats):

Zoecon, Gardens Alive! (Precor)

Pyriproxifen (collars or sprays):

MGK (Nylar) • Bayer (Fleegard)

Insecticidal Soap:

With pyrethrin (do not use on cats):

Woodstream, Planet Natural, Gardens Alive!, Harmony (Flea & Tick
Attack) • Woodstream, Gardens Alive!, Harmony, Nitron (Safer Yard
and Garden) • Peaceful Valley

Pyrethrin (do not use on cats):

Del (Lice, Tick & Flea Spray) • Roxide • Whitmire (PT 175 microen-
capsulated, PT-565, PT-505 XLO) • Enforcer (Flea & Tick Spray,
Powder, Shampoo) • Neogen (Formula 66, LD-44Z) •

Pyrethrum powder (do not use on cats):

Natural Animal (EcoZone), Planet Natural

Repellent (Herbal Flea Collar):

Planet Natural

Silica Aerogel: See ANTS

FLIES

(Nuisance)

Identification & Monitoring

Pheromones & Traps for Agricultural Pests:

Phero Tech, Great Lakes (Unitrap) • Trécé, Gardens Alive!, Great
Lakes, Harmony, Olson, Peaceful Valley, Gemplers (Pherocon) •
Hercon

Test Kit for Insecticide Resistance:

Silver Lake

Physical Controls

Bag to Seal Caskets against Phorids:

Ensure-A-Seal (Tyvek)

Fly bonnet for horses:

WF Young (Fly Bonnet) • Stateline (Ultra Shield)

Screening:

Hydro-Gardens (Fly Barr) • Tipper, Harmony, Peaceful Valley (Tie-
Net)

Sticky Adhesive

Tanglefoot, ARBICO, Planet Natural, Great Lakes, Gemplers,
Harmony, Natural Insect Control, Charley's (Tangle-Trap) • Phero Tech
• Seabright

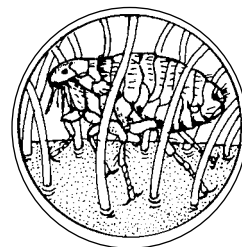
Cone-Type Solar Traps:

ARBICO • Great Lakes (Musca Terminator) • Olson (Stiky) •
Tanglefoot (Aerixon) • Great Lakes • Greenmethods • Peaceful Valley
• Natural Insect Control

Jar-Type and Disposable:

Woodstream, Great Lakes, Peaceful Valley, Natural Insect Control
(Victor Fly-In-Saucer, Fly Magnet) • Sterling Intl. (Rescue!) • Stateline
• Harmony • Sterling (with attractant)

Horse Fly Trap: Newman (Horse Pal)



Electrocution Black Light Fly Traps:

Gilbert Industries (Electrocuting Light Traps) • B & W (Mantis) • Actron

Adhesive Black Light Traps:

Olson, Great Lakes, Gempler's (blacklight, sticky) • Whitmire (Vector) • Whitmire (Actron, programmable) • Actron

Solar-powered electrocution traps:

Great Lakes, Gempler's (Tower of Doom, Dungeon of Doom, solar electrocution)

Sticky trap/tape:

Springstar (fly strip) • Natural Insect Control • Loveland (Sticky Roll) • Crop Production (Hopper Finder) • Phero Tech (Chroma) • Tanglefoot (Aeraxon, window trap) • Zoecon (Fly Inn, Fly Stop, Big Stik)

Biological Controls

Insect-Attacking Nematodes:

Heterorhabditis megidis: Andermatt • Biological Crop • BioBest • Koppert • International Technology • W. Neudorff

Heterorhabditis sp.: Novartis BCM • Biowise • Hydro-Gardens • Koppert • M & R Durango • Natural Insect Control • Nature's Control • Peaceful Valley • Gardens Alive

Steinernema carpocapsae: Biofac • BioLogic • Hydro-Gardens • IPM Labs • M & R Durango • Natural Insect Control • Peaceful Valley • Harmony

Steinernema feltiae: BioLogic • BioBest • Biological Crop • IPM Labs • Natural Insect Control • Koppert • W. Neudorff • International Technology • Harmony • Planet Natural

Steinernema sp.: English Woodlands • Natural Insect Control • Nature's Control
Microbial Drain Cleaner (drain flies): American BioSystems

Sterile flies for release (onion maggot):

De Groene

Microbial Insecticides:

Ivermectin for bot flies, etc.:

Bayer Animal (Ivomec Pour-On)
(Sold only to veterinarians & licensed suppliers)

Ivermectin and clorsulon:

Bayer Animal (Ivomec-F Injection)
(Sold only to veterinarians & licensed suppliers)

Parasitoids:

Muscidifurax raptor: Biofac • IPM Labs • Kunafin • Natural Insect Control • PNE

Muscidifurax raptorellus: IPM Labs • Greenmethods • Rincon-Vitova • Natural Insect Control • Kunafin • Spalding • PNE

Muscidifurax sp.: Beneficial Insectary • Peaceful Valley • Spalding

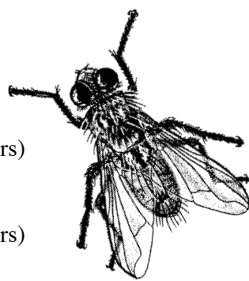
Muscidifurax zaraptor: ARBICO • Planet Natural • Kunafin • M & R Durango • Natural Pest Controls • Nature's Control • Greenmethods • PNE • Spalding

Nasonia vitripennis or *Mormoniella vitripennis*: ARBICO • Natural Pest Controls • PNE • Bioplanet

Spalangia cameroni: Kunafin • PNE • Spalding • Arbico • Rincon Vitova

Spalangia gemini: Kunafin • PNE

Spalangia corana: Biofac



Spalangia endius: Kunafin • Natural Pest Controls • Rincon-Vitova • Greenmethods • PNE • Bugs for Bugs

Spalangia nigroaenea: Kunafin

Spalangia sp.: Beneficial Insectary • M & R Durango • Peaceful Valley • Spalding • Kunafin

Sphegigaster sp.: Peaceful Valley

Trichomalopsis spp.: Beneficial Insectary

Urolepis rufipes: Kunafin



Parasitic mites:

Stratiolaelaps: Applied Bionomics

• Koppert • Garta • Florikan • Evergreen

Predators:

Histerid beetle, *Carcinops pumilio*: IPM Labs • Rincon Vitova

Dung beetle, *Onthophagus* spp.: Rincon Vitova

Predatory fly, *Hydrotaea aenescens*: IPM Labs

Least-Toxic Chemical Controls

Botanical Fly Repellents:

Planet Natural, Natural Insect Control, Gardener's Supply (Skeeter Shoo, citronella) • Woodstream, Gardens Alive (Bite Blocker, geranium oil) • Stateline (Horse Shoo, citronella fly repellent) • ARBICO (Aloe Herbal Spray) • EcoSmart (Bioganic) • WF Young (UltraShield)

Diatomaceous Earth: See ANTS

Pyrethrin:

Roxide, Harmony (Revenge) • Whitmire (PT 175 microencapsulated, PT-565, PT-505 XLO) • Waterbury (Purge III) • Neogen (Formula 66, LD-44Z) • Peaceful Valley (Py-Rin, w/o PBO) • Monterey, Harmony (Bug Buster O, w/o PBO) • Bayer (Harmonix)

Silica aerogel: See ANTS

FRUIT FLIES

Identification & Monitoring

Pheromones & Traps:

ARBICO, Harmony (Catch-em) • Great Lakes, Gemplers (Multi-Pher, Unitrap, Delta) • Trécé, Gardens Alive!, Great Lakes, Olson, Gemplers (Pherocon) • Suterra (Biolure)

Physical Controls

Traps:

Woodstream, Great Lakes, Peaceful Valley, Natural Insect Control (Victor Fly-In Saucer, Fly Magnet) • Biobest • Planet Natural • Phero Tech • Springstar • Biobest (Droso)

Apple maggot red sphere trap:

Ladd, Gemplers, Harmony, Tanglefoot, Natural Insect Control (Ladd) • Harmony (SureFire) • Peaceful Valley • Phero Tech • Springstar

Light traps:

Gilbert Industries (Professional Light Traps) • Gemplers

Sticky trap/tape:

Phero Tech (Chroma) • Scentry, Great Lakes, ARBICO, Planet Natural, Gemplers (Jackson Fruit Fly Trap) • Olson • Santa Cruz Hort • Peaceful Valley

Least-Toxic Chemical Controls

Pyrethrin: (see nuisance flies)

Spinosad Bait: Dow, Harmony (Naturlyte)

FUNGUS GNATS

Physical Controls

Screening:

Hydro-Gardens (Fly Barr) • ATI (Greenhouse screen) • Tipper (Tie-Net) • Green-Tek

Sticky Adhesive:

Seabright, Great Lakes, Harmony, Phero Tech (Stickem Special) • Tanglefoot, ARBICO, Planet Natural, Great Lakes, Gemplers, Harmony, Natural Insect Control, Charley's (Tangle-Trap) • Peaceful Valley

Traps:

ARBICO • Natural Insect Control • Woodstream (Safer Flying Insect) • Phero Tech (Chroma) • Olson, Great Lakes, Gemplers (Stiky Stuff, Stiky Traps) • Peaceful Valley • Springstar • IPM Labs

Biological Controls

Insect-Attacking Nematodes:

Heterorhabditis megidis: Koppert • W. Neudorff
Heterorhabditis sp.: Hydro-Gardens • Koppert • M & R Durango • Nature's Control • Natural Insect Control • W. Neudorff • Peaceful Valley • Gardens Alive • Florikan

Steinernema bibionis: W. Neudorff

Steinernema carpocapsae: Biofac • BioLogic • Biobest • Planet Natural • Gardens Alive! • Hydro-Gardens • IPM Labs • M & R Durango • Natural Insect Control • Peaceful Valley

Steinernema feltiae: BioLogic • BioBest • IPM Labs • Koppert • Natural Insect Control • W. Neudorff • International Technology • Plant Sciences • Andermatt • Garta • M&R Durango • EcoSolutions
Steinernema riobravus: Harmony • Becker Underwood
Steinernema spp.: Beneficial • Biowise • Harmony • Hydro-Gardens • Johnny's • Koppert • Natural Insect Control • Nature's Control • BioLogic

Microbial Insecticides:

Bacillus thuringiensis (BT):

Valent USA, Gardens Alive!, Harmony, IPM Labs, Peaceful Valley (Gnatrol) • Gardens Alive (Knock-Out)

Spreader-Sticker Oil for BT Products: Monterey (Nature's Own)

Predators:

Predatory mite, *Geolaelaps* spp.: Rincon-Vitova • Natural Insect Control
Predatory mite, *Gaeolaelaps gillespiei*: Applied Bionomics
Predatory mite, *Stratiolaelaps scimitus*: ARBICO • Applied Bionomics • BioBest • BioBest Canada • Biological Crop • Biowise • IPM Labs • Koppert • Natural Insect Control • Bug Factory • International Technology • Jorgen Reitzel • M&R Durango • Plant Sciences • Greenmethods • Nature's Control • Evergreen • Peaceful Valley • Eco Solutions

Predatory beetle, *Atheta or Dalotia coriana*: Syngenta Bioline • International Technologies • Biobest Canada • IPM Labs • Applied Bionomics • Natural Insect Control • Rincon Vitova

Least-Toxic Chemical Controls

Diatomaceous Earth: See ANTS

Insect Growth Regulators:

Methoprene:

Zoecon (Enstar)

Insecticidal Oil: See APHIDS

Neem Products:

Certis, Planet Natural, Harmony (Azatin) • Woodstream, Harmony (Safer's BioNeem) • Certis, Harmony, Peaceful Valley (Neemix, Trilogy) • PBI (Azatrol) • Agro (EcoSense) • Gowan (AZA) • Agro (DeBug)

Pyrethrin:

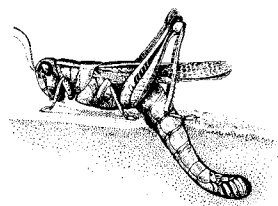
Whitmire (PT 175 microencapsulated, PT-565, PT-505 XLO) • Peaceful Valley (Py-Rin, w/o PBO) • Monterey, Harmony (Bug Buster O, w/o PBO) • MGK, Harmony (PyGanic)

GRASSHOPPERS

Physical Controls

Row Covers:

• Great Lakes (Fiberweb) • Gardener's Supply, Gardens Alive! (Floating Row Covers)
• Gardens Alive! (Super-Light)
• Harmony (AgGro, Tufbell) • Peaceful Valley (Tufbell, AgGro) • Shepherd's (Agrofabric)
• Mipco • Fiberweb



Biological Controls

Insect-Attacking Nematodes (for mole crickets):

Steinernema carpocapsae: BioLogic • IPM Labs
• Natural Insect Control • Harmony • Andermatt
Steinernema feltiae: BioLogic • IPM Labs • Natural Insect Control • Harmony
Steinernema scapterisci: Gardens Alive • Becker Underwood
Steinernema riobravus: Becker Underwood • Harmony

Microbial Insecticides:

Protozoan pathogen:

Nosema locustae (for grasshoppers): Harmony • Hydro-Gardens • M & R Durango (Nolo Bait) • Nitron, Planet Natural, Gardens Alive! (Semispore Bait) • Peaceful Valley

Fungal pathogen:

Beauveria bassiana (for grasshopper, crickets): Troy, Hydrogardens, Greenmethods, Gardener's Supply (Naturalis-T) • BioWorks (Mycotrol)

Least-Toxic Chemical Controls

Borate-Based Insecticides:

NISUS, Target (NIBAN Granular Bait for crickets) • Whitmire (PT 249 Perma-Dust)

Diatomaceous Earth: See ANTS

Insecticidal Soap:

Woodstream (Concern) • Peaceful Valley • Woodstream (Safer)

With pyrethrin:

Peaceful Valley • Woodstream, Gardens Alive!, Harmony, Nitron (Safer Yard and Garden Insect Attack)

Neem Products (Act as Repellents): See APHIDS

Repellent Garlic Spray:

Garlic Research Labs, (Garlic Barrier) • Soil Technologies (Garlic Gard) • Harmony • Peaceful Valley

Rotenone:

Bonide • Peaceful Valley

Sabadilla:

Planet Natural • MGK, Harmony (Veratran) • Peaceful Valley

GRUBS

(See Beetles)

LEAFHOPPERS

Identification & Monitoring

Sticky trap/tape:

Scentry, Great Lakes, ARBICO, Planet Natural (Versagard) • Phero Tech

Physical Controls

Barriers & Exclusion Devices:

Planet Natural • Gardens Alive!

Plastic film to attract leafhoppers:

Crop Production (HopperFinder)

Sticky Adhesive:

Seabright, Great Lakes, Harmony, Phero Tech
(Stikem Special) • Peaceful Valley

Traps and Sticky Tape:

ARBICO • Planet Natural • Gardens Alive • Harmony • IPM Labs
• Woodstream (Safer) • Peaceful Valley • Phero Tech (Chroma)

Biological Controls

Parasitoids:

Anagrus atomus: Biowise • BioBest
Anagrus spp.: Biological Crop

Least-Toxic Chemical Controls (see Aphids)

LEAFMINERS

Physical Controls

Sticky Adhesive:

Seabright, Great Lakes, Harmony, Phero Tech (Stikem Special) •
Tanglefoot, ARBICO, Planet Natural, Great Lakes, Harmony, Natural
Insect Control, Charley's (Tangle-Trap) • Peaceful Valley

Sticky Trap/Tape:

Olson • Gemplers • Phero Tech • Trécé, Great Lakes (Pherocon) •
Harmony • Peaceful Valley • Planet Natural • Gardens Alive

Biological Controls

Parasitoids:

Dacnusa sibirica: ARBICO • Biobest • Biobest Canada • Biological
Crop • Duclos • Biowise • Gartnerei • Koppert • Natural Pest
Controls • Sautter & Stepper • W. Neudorff • Greenmethods •
Natural Insect Control • International Technology • Rincon-Vitova
• Garta
Diglyphus isaea: • ARBICO • Azienda • BioBee • Biobest •
Bioplanet • Biological Control • Syngenta Bioline • Duclos •
Biowise • Gartnerei • Koppert • Natural Pest Controls • Plant
Sciences • Sautter & Stepper • W. Neudorff • Natural Insect

Control • Greenmethods • International Technology • Rincon-
Vitova

Opius pallipes: Bio Pre

Microbial Insecticides:

BT (for citrus leafminer):

Valent USA, Peaceful Valley, Planet Natural, Biowise (Dipel) • Plant
Health Care

Entomopathogenic Fungus:

Metarhizium anisopliae (for meadow spittlebug, coffee leafminer):
Agricola El Sol • Bio Pre

Least-Toxic Chemical Controls

Abamectin:

Bayer Agricultural, Planet Natural (Avid)

Insecticidal Oil:

Florikan (Target Oil) • (See Aphids for a More Complete Listing)

Neem Products:

Certis, Planet Natural, Harmony, Peaceful Valley, Greenmethods
(Azatin for ornamentals, Neemix for food crops) • Woodstream,
Harmony, Peaceful Valley (Safer's BioNeem) • Gardens Alive (Neem-
Away) • Green Light • PBI (Azatrol) • Agro (EcoSense) • Gowan(AZA)

Repellent Hot Pepper Wax:

Charley's • Harmony (Hot Pepper Wax) • Greenmethods • St. Gabriel

LICE

Identification & Monitoring

Head lice detection kit:

Insight (Pronto Lice Detection Kit, for home use)

Head lice prevention, management and educational products:

National Pediculosis Association

Physical Controls

Head lice comb:

Health Enterprises (Acu-Life) • National Pediculosis Association
(LiceMeister)



Least-Toxic Chemical Controls

Enzyme Shampoos:

Safe Effective (Lice-B-Gone)

Pyrethrin shampoo, for head lice: Insight (Pronto) • Hogil
Pharmaceuticals (A-200) • Bayer (RID)

Pyrethrin, with pubic lice comb:

Hogil (Innogel Plus for pubic lice)

MAGGOTS

(See Flies)

MEALYBUGS

Physical Controls

Screening:

Hydro-Gardens • Tipper, Harmony (Tie-Net) • Peaceful Valley

Biological Controls

Parasitoids:

Anagrus fusciventris: Bio Pre

Anagrus pseudococci: Amos Rubin • Bio Bee • Biological Control • Associates • FAR

Leptomastidea abnormis: Amos Rubin • Bio Pre • W. Neudorff • Natural Insect Control

Leptomastix dactylopii: Amos Rubin • Azienda • Biobest • Bioplanet • IPM Labs • Koppert • W. Neudorff • Rincon-Vitova • Flora • Katz • Biobest Canada • Biobest USA

Leptomastix epona: Bio Pre

Pseudaphycus flavidulus: Bio Pre

Pseudaphycus maculipennis: Bio Pre

Predators:

Lacewing, *Symphorobius sanctus*: Amos Rubin • Bio Bee • Bio Pre

Lacewing, *Micromus variegatus*: Applied Bionomics

Lady beetles:

Mealybug destroyer, *Cryptolaemus montrouzieri*: Amos Rubin • ARBICO • Azienda • Bio Bee • Biobest • Biobest Canada • Bioplanet • Biological Control • Biological Crop • Bio Pre • Planet Natural • Bugs for Bugs • Biowise • Hydrogardens • IPM Labs • Koppert • M & R Durango • Natural Insect Control • Natural Pest Controls • Bug Factory • Nature's Control • Organic Control • Rincon-Vitova • W. Neudorff • Greenmethods • EcoSolutions • Associates • FAR

Hyperaspis polita: Amos Rubin

Nephus reunioni: Amos Rubin • Bio Pre

Scymnus bipunctatus: Amos Rubin

Least-Toxic Chemical Controls

Citrus Mealybug Pheromone: Syngenta Bioline

***Chromobacterium*:** Marrone (Grandevo)

Diatomaceous earth: See ANTS

Insecticidal Oil:

Highly refined oil (from fish):

Peaceful Valley

Highly refined oil (from petroleum):

Monterey, Harmony (Saf-T-Side) • Valent USA, Harmony, Peaceful Valley (Volck) • Sun Oil, Gardens Alive!, Harmony, Peaceful Valley, Charley's, Greenmethods (Sunspray) • Greenmethods • Gardens Alive (Eco-Oil) • Summit

Highly refined seed oil:

Stoller, Peaceful Valley

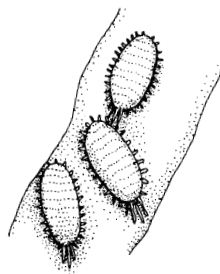
(Natur'l Oil, 93% soybean)

• ARBICO (Spreadall 93% cottonseed)

Insecticidal Soap: See APHIDS

Neem Products:

See LEAFMINERS



MITES

Identification & Monitoring

Traps:

Phero Tech (Varroa Mite Trap)

Physical Controls

Furniture covers for dust mites:

Allergy Control Products

Mattress Covers (to exclude dust mite):

Puritans Pride • Allergy Control

Mattress Cleaning Machine: Hygienitech

Vacuums: Proteam (Sierra, Optimus)

Kaolin Crop Protection: BASF, Peaceful (Surround)

Biological Controls

Microbial Insecticides:

Beauveria bassiana: Troy, Hydrogardens, Gardener's Supply (Naturalis-O and L) • Laverlam, Bioworks (Botanigard) • Peaceful Valley • BioWorks (Mycotrol)

Predators:

Lady beetle, *Stethorus punctillum* (for European red spider mite): Applied Bionomics • Evergreen • Rincon Vitova • Nature's Control • Natural Insect Control • Greenmethods • ARBICO • EcoSolutions

Predatory bugs:

Orius insidiosus: Syngenta Bioline • Gartenbau • Gartnerei • International Technology • IPM Labs • Koppert • Nature's Control • The Bug Store • ARBICO • Rincon Vitova

Orius laevigatus: Koppert • Biological Crop

Orius majusculus: Biological Crop • Sautter & Stepper • W. Neudorff

Orius spp.: Biobest • Bioplanet • Bio Pre • Duclos • Natural Insect Control

Orius tristicolor: ARBICO • Planet Natural

Predatory gall midge (the mite midge):

Feltiella acarisuga: Bio Pre • Biobest • Biobest Canada • Biological Crop • Biowise • Koppert • Natural Insect Control • Rincon-Vitova • Bug Factory • Greenmethods • Nature's Control • ARBICO • EcoSolutions

Predatory mites:

Amblyseius andersonii (for spider mites): Syngenta Bioline • EcoSolutions • International Technology

Amblyseius californicus (for two-spotted spider mite): Bio Pre • BioBest • Biotactics • Planet Natural • Hydro-Gardens • International Technology • IPM Labs • Koppert • Kuida • M & R Durango • Natural Insect Control • Natural Pest Controls • Nature's Control • Rincon-Vitova • FAR • Greenmethods

Amblyseius cucumeris (for two-spotted spider mite): Applied Bionomics • ARBICO • Biofac • Evergreen • Syngenta Bioline • Gartnerei • Hydro-Gardens • International Technology • IPM Labs • M & R Durango • Bug Factory • Natural Insect Control • Natural Pest Controls • Rincon-Vitova • W. Neudorff • Bio Bee

Amblyseius degenerans (for mites): Greenmethods • Evergreen • Syngenta Bioline

Amblyseius fallacis (for two-spotted spider mite, European red mite): Applied Bionomics • Evergreen • IPM Labs • Natural Insect Control • Greenmethods • Biotactics • ARBICO

Galendromus annectans (for persea mite): ARBICO • Biotactics • Rincon-Vitova

Galendromus helveolus (for persea mite): ARBICO • Biotactics • Rincon-Vitova

Hypoaspis aculeifer (for bulb mite): Biobest
Mesoseiulus longipes or *Phytoseiulus longipes* (for two-spotted spider mite): ARBICO • Biotactics • Planet Natural • Hydro-Gardens • IPM • M & R Durango • Natural Insect Control • Nature's Control • Peaceful Valley • Greenmethods
Metaseiulus occidentalis or *Galendromus occidentalis*: ARBICO • Biological Control • Biotactics • Planet Natural • Florikan • Gartenbau • IPM Labs • Koppert • Kuida • M & R Durango • Natural Insect Control • Natural Pest Controls • Nature's Control • Peaceful Valley • Rincon-Vitova • Greenmethods
Neoseiulus setulus (for cyclamen mite): ARBICO
Phytoseiulus macropilis (spider mite): Biotactics • Rincon-Vitova • Beneficial Insectary

Phytoseiulus persimilis (for two-spotted spider mite): Applied Biomix • ARBICO • Azienda • Bio Bee • Biobest • Biobest Canada • Bio Pre • Bioplanet • Biological Control • Biological Crop • Biotactics • Planet Natural • Syngenta Bioline • CO. DEA • Central Coast • Duclos • Evergreen • Biowise • Florikan • Gartenbau • Gartnerei • Hydro-Gardens • International Technology • IPM Labs • Koppert • Kuida • M&R Durango • Natural Insect Control • Natural Pest Controls • Bug Factory • Nature's Control • Peaceful Valley • Rincon-Vitova • Sautter & Stepper • W. Neudorff • Zaklad • Greenmethods • EcoSolutions • Flora • Katz

Scolothrips sexamaculatus (predatory thrips): Rincon Vitova
Typhlodromus athiasae (for red mite): Amos Rubin

Least-Toxic Chemical Controls

Abamectin (Isolated from *Streptomyces avermitilis*):

Bayer Agricultural, Planet Natural (Avid)

Cedar Oil (Cedar Gard):

NRG

Herbal Oils (Zero Tol): Quick

Clove oil, garlic extract:

JH Biotech, Safer Gro, Harmony (Pest Out)

Cinnamic aldehyde (orchard, field mites):

Whitmire, Florikan (Valero)

Cinnamic aldehyde (greenhouse):

Whitmire, Florikan (Cinnamite)

Cottonseed, Clove, Garlic oil:

Harmony (Mite-X)

Insecticidal Oil:

Highly refined oil (from fish):

Peaceful Valley • Organic Labs (95% fish, 5% sesame, Organocide)

Highly refined oil (from petroleum):

Monterey, Harmony (Saf-T-Side) • Valent USA, Harmony, Peaceful Valley (Volck Supreme Spray) • Sun Oil, Charley's, Gardens Alive!, Harmony, Peaceful Valley (Sunspray) • Gardens Alive (Eco-Oil) • Greenmethods • Summit

Highly refined seed oil:

ARBICO (Spreadall, 93 % cottonseed) • Stoller, Peaceful Valley (Natur'l Oil) • Monterey (Erase)

Insecticidal Soap: See APHIDS

Neem Products: See APHIDS

Pyrethrin:

Neogen (microencapsulated, Capsul-Ban, Formula 66, LD 44Z) • Roxide • Whitmire (PT 175 microencapsulated, PT-565, PT-505 XLO) • Peaceful Valley (Py-Rin, w/o PBO) • Monterey, Harmony (Bug Buster-O, w/o PBO) • MGK, Peaceful, Harmony (PyGanic) • Bayer (Harmonix, w/o PBO)

Pyrethrin, rotenone, sulfur and copper (garden mites):

Bonide, Gardner's Supply (Bonide Garden Dust)

Pyrethroid (fluvalinate):

Zoecon, Miller Bee (Apistan Strips for bee mites)

Pyrethroid (permethrin-soaked cotton balls given to laboratory rodents to kill ectoparasite vectors):

Ecohealth (Mite Arrest)

Repellent Garlic Spray (for spider mite):

Garlic Research Labs, (Garlic Barrier) • Soil Technologies (Garlic Gard) • Peaceful Valley • Safer-Gro

Repellent Hot Pepper Wax:

Harmony • Greenmethods • Peaceful Valley • St. Gabriel

Borates: Ecology Works (Flea and Dust Mite Control)

Tannic acid (for house dust mites):

Allergy Control Products

MOSQUITOES

Identification & Monitoring

Mosquito Traps:

BioQuip (CDC, EVS, New Jersey) • Gempler's • Woodstream (Mosquito Magnet) • Biosensory (Dragonfly) • Envirosafe (Megacatch) • Peaceful Valley (Lentek) • Flowtron • Springstar

Attractant for Mosquito Traps:

Flowtron (Octenol controlled release)

• Sigma Chemical (Octenol) • Biosensory

Mosquito larvae collection devices:

Clarke Mosquito Control (Dippers)

• BioQuip • Ben Meadows

Physical Controls

Screening and Netting:

BioQuip • REI • Apex Medical

Monomolecular Films to Stop Larvae:

Cognis (Agnique) • Univar

Biological Controls

Habitat:

Bat Houses: Harmony, Natural Insect Control, Greenmethods, Peaceful Valley

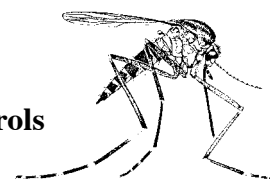
Purple martin bird houses: Nature House (Trio)

Microbial Insecticides:

Bacillus sphaericus (for Culex larvae): Valent Bio (VectoLex, Spherimos)
Bacillus thuringiensis israelensis (BTI) for mosquito & blackfly larvae: Valent Bio, Harmony, Peaceful Valley (Vectobac) • Valent Bio, Peaceful Valley (Bactimos) • Zoecon (Teknar) • Summit, Harmony, Nitron, Sutton, Natural Insect Control (Mosquito Dunks) • Ecological (Microbe Lift) • Harmony (Mosquito Bits) • Cleary (Sentry)

Predators:

mosquito fish, *Gambusia affinis*: J. Reilly (Fish shipped May-July) • Natural Pest Controls • Richmond



Least-Toxic Chemical Controls

Insecticidal Oil: See APHIDS

Insect Growth Regulators:

Methoprene pellets, Zoecon (Altosid)

Repellents (Botanical):

Planet Natural, Natural Insect Control (Skeeter Shooo Botanical) • San Jacinto (Mosquito Beater) • S.C. Johnson, Planet Natural (citronella candles) • Woodstream, Gardens Alive (Bite Blocker, geranium oil) • Tender, A.M. Leonard (Natrappel citronella) • Woodstream, Garlic Research (Mosquito Barrier Area Repellent) • Dr. T's • Charley's • EcoSmart (Shoo Bug) • HOMS (Bite Blocker) • Gardens Alive (Sting Free, geranium oil) • WPC (Repel lemon eucalyptus)

Seeds or Mosquito-Repelling Plants:

Renee's (sweet basil) • Park Seed (holy basil) • J.L. Hudson (seeds for repellent plants)

DEET repellent:

REI (Cutter's, Jungle Juice) • BioQuip • 3M (Ultrathon)

Pyrethrin repellent (not for use on skin):

WPC (Permanone) • Waterbury (Purge III)

MOTHS

(See Caterpillars)

NEMATODES

Biological Controls

Beneficial Nematodes:

Steinernema spp.: Nitron, Johnny's • BioLogic • Hydro-Gardens

Biocontrol bacteria:

Burkholderia cepacia: Soil Technologies

Bacillus chitinosporus: Rincon-Vitova (Activate)

Pasteuria usage: Pasteuria BioScience

Biocontrol Fungi:

Arthrobothrys sp. (Europe only): Bio Pre

Dactylella sp. (Europe only): Bio Pre

Myrothecium verrucaria: Valent USA, Peaceful Valley (DiTera)

Paecilomyces lilacinus: Bio Pre • Prophya • Certis (MeloCon)

Experimental Fungus: International Mycological Institute

Chitin: Planet Natural • International Chitin • Peaceful (Shrimp Shells)

Botanical nematocide: Soil Technologies (Nemastop)

Sesame: Poulenger (Dragonfire, oil; Ontrol, liquid) • Natural

Organic (Nemastop, groundup plant) • Brandt (Nemax, sesame oil)

Neemcake: Agro

SAWFLIES

Physical Controls

Traps and Sticky Tape:

Great Lakes

Least-Toxic Chemical Controls

Insecticidal Soap: See APHIDS

Spinosad: Dow • Harmony • Monterey

Neem Products: Certis, Planet Natural, Harmony (Azatin) •

Woodstream, Harmony, (Safer's BioNeem) • PBI (Azatrol) • Agro

(EcoSense) • Certis, Harmony, Peaceful Valley (Neemix, Trilogy)

SCALES

(See Beetles)

Identification & Monitoring

Pheromones & Traps:

ARBICO, Harmony (Catch-em) • Trécé, Great Lakes, Gemplers, Harmony, Peaceful Valley (Pherocon, Multi-Pher, Unitrap, Delta Traps) • Scentry, Great Lakes, ARBICO, Planet Natural, Gemplers, Natural Insect Control (Delta & Wing Trap) • Phero Tech • Woodstream (SureFire)

Sticky Trap/Tape:

ARBICO • Planet Natural • Great Lakes • Olson • Gemplers

• Scentry • Peaceful Valley • Phero Tech

Physical Controls

Barriers & Exclusion Devices:

Planet Natural • Gardens Alive!

Screening:

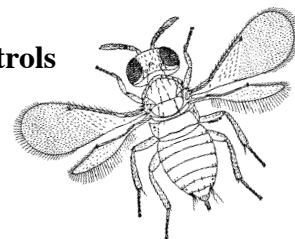
Hydro-Gardens (Fly Barr)

Sticky Adhesive:

Seabright, Great Lakes, Harmony, Phero Tech (Stickem Special)

Traps and Sticky Tape:

Planet Natural • Gardens Alive! • Harmony • IPM Labs • Phero Tech (Chroma) • Peaceful Valley



Biological Controls

Parasitoids:

Aphytis lingnanensis (for California red scale): Amos Rubin • Bugs for Bugs

Aphytis melinus (for red scale): ARBICO • Bio Pre • FAR • IPM Labs • Kuida • Natural Insect Control • Natural Pest Controls • Organic Control • Rincon-Vitova • Sespe Creek • Greenmethods • Ecosolutions
Coccophagus lycimnia: Bio Pre

Encyrtus lecaniorum: Bio Pre

Metaphycus zebratus (for soft scale): Bio Pre

Microterys flavus (for brown scale): Bio Pre • Natural Pest Controls • W. Neudorff • Natural Insect Control

Predators:

Lady beetles:

Chilocorus baileyi (for armored scale): Bugs for Bugs • W. Neudorff

Chilocorus circumdatus (for citrus snow scale, armored scale): Bugs for Bugs • W. Neudorff

Chilocorus nigritus (for hard scale): Bio Pre • W. Neudorff

Harmonia axyridis: Rincon Vitova

Lindorus lophanthae: ARBICO • Bio Pre • Planet Natural • Bugs for Bugs • Natural Insect Control • Rincon-Vitova • M&R Durango • Ecosolutions

Scymnus sp. (for soft scale): Bio Pre

Least-Toxic Chemical Controls

Insect Growth Regulators

Fenoxycarb: Syngenta (Comply, Precision)

S-Kinoprene: Zoecon (Enstar)

Insecticidal Oil: See Aphids

Insecticidal Soap: See Aphids

Pyrethrin: See Aphids

Repellent Hot Pepper Wax

Planet Natural • Greenmethods • Charley's • Harmony • St. Gabriel • Peaceful Valley

SILVERFISH

Least-Toxic Chemical Controls

Borate-Based Insecticides:

Waterbury (Mop-Up) • Whitmire (PT 249 35% boric acid dust) • Peaceful Valley (Roach Powder) • Nisus, Target (Niban FG) • NISUS (Timbor) • Planet Natural (Borid) • J.T. Eaton

Diatomaceous Earth: See ANTS

Pyrethrin:

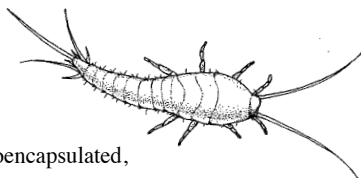
Bayer ES (Kicker, Drione)

• Neogen

(Formula 66, LD-44Z)

• Roxide • Whitmire (PT 175 microencapsulated, PT-565, PT-505 XLO) • Bayer (Harmonix)

Silica Aerogel: See ANTS



SLUGS AND SNAILS

Physical Controls

Barriers & Exclusion Devices:

Copper snail barrier:

Harmony, The Natural Gardening, Peaceful Valley (Snail-Barr)

• Woodstream, Greenmethods (Safer)

Traps:

Woodstream, Harmony, Santa Cruz Hort., ARBICO, Peaceful Valley, Great Lakes, The Natural Gardening (Safer) • Nitron, Peaceful Valley, ARBICO (Slug Saloon)

Trap with barley/rice yeast bait:

Gardener's Supply (Slug Trap)

Biological Controls

Predators:

Predatory nematode for snails, *Phasmarhabditis* sp.:

Biowise • Becker Underwood

Predatory snail, *Rumina decollata* (for brown garden snail): ARBICO

• Rincon-Vitova • Sespe Creek • FAR

Least-Toxic Chemical Controls

Insecticidal Soap: See APHIDS

Slug Bait:

Garden's Alive (Escargo, iron phosphate) • Monterey, Harmony, Peaceful Valley (Sluggo Plus, iron phosphate) • Certis (Sluggo)

TERMITES

Identification & Monitoring

Acoustic Detection: Acoustic (AED 2010) • Dunegan (Termite Tracker)

Infrared for Termite Detection: Termicam • Termiscan • Professional

Microwave for Termite Detection: Termatrac (Termatrac)

Moisture Meter:

Professional Equipment • Univar • Ben Meadows • Delmhorst

Rigid borescope for detecting termites:

Univar (Econoscope) • Professional Equipment

Termite Sniffer:

Professional Equipment • Termite Detection (CO2)

Trained Dogs:

American K-9 • Florida Canine

Biological Controls

Insect-Attacking Nematodes:

Steinernema carpocapsae: BioLogic • Hydro-Gardens

Physical Controls

Electrical Treatment (for drywood termite & boring beetles): ETEX (Electrogun)

Heat Treatment:

In Denmark: Tanaco

TPE/Thermature (Call for Local Practitioners) • In England (Thermo Lignum) • Topp (heaters) • Pest Heat

Microwave Equipment:

Professional Equipment

Microwave Treatment:

Call the Bio-Integral Resource Center (see address list)

Least-Toxic Chemical Controls

Borate Termiticide & Wood Preservative:

NISUS, Target, Van Waters (Bora-Care, Jecta) • Pole Care (Impel Rods) • Permachink (Guardian, Shellguard) • Sashco (Penetreat) • NISUS (TimBor) • NovaGard (ArmorGard)

Borate-treated logs:

Appalachian • Lok-N-Logs

Borate-treated lumber:

Osmose

Borate application foamer:

Richway Industries

Limonene (XT-2000): XT-2000

Imidacloprid Soil Treatment:

Bayer ES (Premise)

Fipronil Soil Treatment: BASF (Termidor)

Altriset soil treatment: Dupont

Termite Baits:

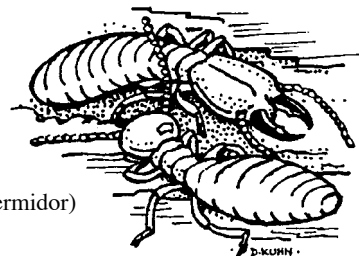
Diflubenzuron Exterra System: Ensysstex

Noviflumuron Sentricon System: Dow AgroSciences

Hydramethylnon Bait: BASF (Subterfuge)

Sulfluramid Bait: FMC Corporation (FirstLine) • United (Terminate)

Termatrol Monitoring Station: Whitmire



THRIPS

Identification & Monitoring

Pheromones & Traps:

Great Lakes • Trécé, Gardens Alive!, Great Lakes, Olson, Gemplers (Pherocon) • Peaceful Valley • AgBio (Thrips Lure)

Sticky Trap/Tape:

ARBICO • BioBest • Planet Natural • Great Lakes • Gemplers • Scentry • Crop Production (Blue Plastic) • Phero Tech

Physical Controls

Screening:

Green-Tek, Greenmethods (No-Thrip) • Tipper, Harmony, Peaceful Valley (Tie-Net)

Kaolin coatings: BASF, Peaceful Valley (Surround) • Planet Natural

Traps and Sticky Tape:

Springstar • Harmony • Natural Insect Control • Olson • Gemplers • Phero Tech • Great Lakes • Peaceful Valley • Crop Production (Blue Plastic)

Biological Controls

Microbials

Beauveria bassiana: Laverlam, Bioworks, Florikan, Harmony (Botanigard) • Troy (Naturalis O, L) • BioWorks (Mycotrol)

Verticillium lecanii: Koppert (Mycotal, Vertalec)

Chromobacterium: Marrone (Grandevo)

Predators:

Lacewing, *Chrysoperla* spp.: Smith & Hawken • W. Neudorff
Lacewing, *Mallada signata*: Bugs for Bugs

Predatory bugs:

Deraeocoris brevis: Applied Bionomics • Greenmethods

Macrolophus nubilis: Flora Nutzlinge • Katz

Orius insidiosus: Syngenta Bioline • Koppert • IPM Labs • Gartnerei • Nature's Control • Greenmethods • International Technology • Biobest Canada • Natural Insect Control • Rincon Vitova

Orius laevigatus (for western flower thrips): Amos Rubin • Bioplanet • Bio Bee • Koppert • Biological Control • Biological Crop

Orius majusculus: Koppert • Sautter & Stepper • W. Neudorff • Bioplanet

Orius spp.: Biobest • Bioplanet • Bio Pre • Duclos • Natural Insect Control • Ecosolutions

Orius tristicolor: ARBICO • Planet Natural

Predatory mites:

Amblyseius barkeri: FAR • IPM Labs • Natural Insect Control • Sautter & Stepper • W. Neudorff

Amblyseius cucumeris: ARBICO • Applied Bionomics • Biobest • Biobest Canada • Biofac • Planet Natural • Syngenta Bioline • Gartnerei • Hydro-Gardens • International Technology • IPM Labs • Koppert • M & R Durango • Evergreen • Bug Factory • Natural Insect Control • Natural Pest Control • Natural Pest Controls • Nature's Control • Peaceful Valley • Gemplers • Rincon-Vitova • W. Neudorff • Greenmethods • Borregaard • Sautter and Stepper • Garta • Biological Crop • EcoSolutions
Amblyseius degenerans: Amos Rubin • Applied Bionomics • Bio Pre • Bio Bee • Biological Control • International Technology • IPM Labs •

Koppert • Natural Insect Control • Greenmethods • Biobest Canada
Amblyseius swirskii: Syngenta Bioline • EcoSolutions • International Technology

Gaeolaelaps gillespiei: Applied Bionomics

Stratiolaelaps scimitus (for springtail thrips): Applied Bionomics • IPM Labs • Natural Insect Control • Bug Factory • International Technology • Koppert • Flora • Katz • Peaceful Valley

Least-Toxic Chemical Controls

Clove Oil, Garlic: JH Biotech, Harmony (Pest Out)

Cottonseed, Clove, Garlic Oil: Harmony (X-Mite)

Diatomaceous Earth: See Ants

Insecticidal Soap: See Aphids

Neem Products:

Certis, Planet Natural,
Harmony (Azatin, Align) • Woodstream,
Harmony (Safer's BioNeem)
• Certis, Harmony, Peaceful Valley
(Neemix, Neemazad, Trilogy, Triact)
• Green Light • PBI (Azatrol)

Pyrethrin:

Johnny's, Peaceful Valley (Pyrenone)
• Woodstream (Concern) • MGK, Peaceful (PyGanic)

Repellent Garlic Spray:

Garlic Research Labs, (Garlic Barrier) • Soil Technologies (Garlic Gard) • Peaceful Valley • Harmony • JH Biotech

Sabadilla:

MGK, Harmony (Veratran)



TICKS

Physical Controls

Curved tweezers:

BioQuip Products (foreceps)

Tweezers, magnifier & specimen storage bag:

REI (Tick Solution Kit) • BioQuip • A.M. Leonard (TickPick)

Least-Toxic Chemical Controls

Diatomaceous Earth, with pyrethrin:

Permaguard, Nitron (Permaguard Pet & Animal) • Nitron (Permaguard Household)

Microbial Insecticide: Novozymes (MET52, *Metarhizium anisopliae*)

Insecticidal Oil:

Citrus oil (d-limonene) extract:

Orange Guard, Univar, Target

Repellents:

DEET repellent:

REI (Cutter's, Jungle Juice)

Permethrin tick repellent:

WPC, Forestry Suppliers (Permanone)
• Sawyer

Selective Pesticide Fipronil:

Merial (Frontline) • Veterinarians

Insecticidal Soap:

With pyrethrin:

Woodstream, Planet Natural, Gardens Alive!, Harmony (Flea & Tick Attack) • Woodstream, Gardens Alive!, Harmony, Nitron, The Natural



Gardening (Safer Yard and Garden) • Peaceful Valley

Pyrethrin:

Bayer (Harmonix)

Pyrethroid (permethrin-soaked cotton balls taken to rodent nests to kill ectoparasite vectors):

Ecohealth, Harmony (Damminix)

Silica Aerogel: see ANTS

TMS Tick Management System: Bayer ES

WASPS

(See Yellowjackets)

WEEVILS

(See Beetles)

WHITEFLIES

Identification & Monitoring

Pheromones & Traps:

Trécé, Gardens Alive!, Great Lakes, Olson, Gemplers (Pherocon) • Phero Tech • Peaceful Valley

Sticky Trap/Tape:

Scentry, Great Lakes, ARBICO, Planet Natural, Gemplers (Versagard) • Hansen's • ARBICO • Natural Insect Control • Peaceful Valley

Physical Controls

Screening:

Hydro-Gardens (Fly Barr) • Tipper, Harmony, Peaceful Valley (Tie-Net) • Green-Tek

Sticky Adhesive:

Tanglefoot, ARBICO, Planet Natural, Great Lakes, Gemplers, Harmony, Natural Insect Control, Charley's (Tangle-Trap) • Seabright, Harmony, Great Lakes (Stickem) • Peaceful Valley • Phero Tech

Traps:

Woodstream (Safer Flying Insect) • ARBICO (Insect-A-Peel) • Phero Tech • Springstar

Light traps:

Gilbert Industries (Light Traps)

Sticky trap/tape:

ARBICO • Natural Insect Control • Phero Tech (Chroma) • Olson, Great Lakes, Gemplers, Charley's (Stiky Stuff, Stiky Traps) • Seabright (Sticky Traps) • Harmony • Peaceful Valley • Nature's Control

Biological Controls

Microbial Insecticides:

Beauveria bassiana fungus: Troy, Hydro-Gardens, Gardener's Supply, Planet Natural (Naturalis O, L, ES) • Laverlam, Bioworks, Hydro-Gardens, Harmony, Rincon-Vitova (Mycotrol, Botanigard)

Paecilomyces fumosoroseus fungus (call for availability in the U.S.): Certis (PFR-97) • Natural Industries (No Fly) • Rincon Vitova

Verticillium lecanii fungus (for greenhouse use): Koppert (Mycotal, Vertalec)

Codacide oil to use with fungal spray: Microcide

Parasitoids:

Encarsia deserti: Hydro-Gardens

Encarsia formosa (for greenhouse whitefly): ARBICO • Applied Bionomics • Biobest • Bioplanet • Biological Crop • Budai • Syngenta Bioline • CIE • CO. DEA • Duclos • Biowise • Evergreen • Gartnerei • Hydro-Gardens • IPM Labs • Koppert • M & R Durango • Natural Insect Control • Natural Pest Control • Natural Pest Controls • Nature's Control • Organic Control • Planet Natural • Rincon-Vitova • Sautter & Stepper • W. Neudorff • Zaklad • Greenmethods • Flora • International Technology • Biobest Canada • Katz

Encarsia mundus: Bioplanet, Biobest, International Technology

Eretmocerus californicus (for sweetpotato or silverleaf whitefly): Beneficial • Bio Pre • Florikan • International Technology • IPM Labs • Plant Sciences • Rincon-Vitova

Eretmocerus eremicus: Syngenta Bioline • Hydrogardens • Biobest

Canada • Greenmethods • Natural Insect Control • Koppert • Biological Crop • M&R Durango • Rincon-Vitova • International Technology

Predators:

Lacewing (greenhouse use),

Chrysoperla carnea or *Chrysopa carnea*: See APHIDS for suppliers

Lacewing (greenhouse use),

Chrysoperla rufilabris: See

APHIDS for suppliers

Lacewing (greenhouse use),

Mallada signata: Bugs for Bugs

Lacewing, *Micromus variegatus*:

Applied Bionomics

Lady beetle, *Delphastus pusillus*

(for sweetpotato or silverleaf whitefly): Amos Rubin • Biobest •

Biological Crop • Evergreen • Planet Natural • Hydro-Gardens •

International Technology • IPM Labs • Natural Insect Control •

Nature's Control • Rincon-Vitova • Greenmethods • Peaceful Valley •

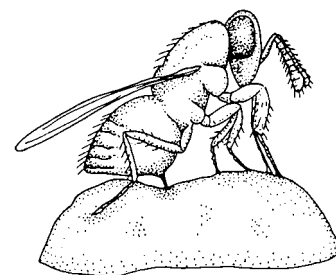
Organic Control

Lady beetle, *Delphastus catalinae*: Applied Bionomics • IPM Labs • Rincon-Vitova

Predatory bug, *Macrolophus caliginosus*: Biobest • Bioplanet •

Biowise • Koppert

Predatory bug, *Dicyphus hesperus* Applied Bionomics • Natural Insect Control • Biobest Canada



Least-Toxic Chemical Controls

Diatomaceous Earth: See ANTS

Insect Growth Regulators: Zoecon (Enstar)

Insecticidal Oil:

Highly refined oil (from petroleum):

Monterey, Harmony (Saf-T-Side)

• Sun Oil, Gardens Alive!, Harmony, Peaceful Valley (Sunspray) • Florikan (Target Oil) • Gardens Alive (Eco-Oil)

Highly refined seed oil:

Stoller, Peaceful Valley (Natur'l Oil) • Gardens Alive (Oil Away)

Insecticidal Soap: See APHIDS

Neem Products:

Certis, Planet Natural, Harmony (Azatin) • Woodstream, Harmony, Peaceful Valley (Safer's BioNeem) • Certis, Harmony, Peaceful Valley (Neemix, Trilogy) • San Jacinto (Organica) • PBI (Azatrol) • Agro (EcoSense, AZA Direct) • Gowan (AZA) • Monterey • Agro (DeBug)

Pyrethrin:

Monterey, Harmony (Bug Buster-O w/o PBO) • MGK, Harmony, Peaceful (PyGanic) • Bayer (Harmonix)

Repellent Garlic Spray:

Garlic Research Labs, (Garlic Barrier) • Soil Technologies (Garlic Gard) • Peaceful Valley • Safer Gro

WORMS

(See Caterpillars)

YELLOWJACKETS and BEES

Identification & Monitoring

Pheromones & Traps:

Woodstream, Planet Natural, Peaceful Valley, Harmony, Great Lakes (SureFire) • Phero Tech (Phero Tech Lures) • Phero Tech, Great Lakes (Unitrap) • Trécé, Gardens Alive!, Great Lakes, Olson, Gemplers (Pherocon) • San Jacinto (for Africanized bees)

Physical Controls

Beekeeping equipment for use on bee swarms, yellowjacket nest removal:

Miller Bee (bee veil, gloves, suits) • Dadant & Sons (Bee veils & coveralls) • BioQuip

Bee swarm traps: Scentry, Great Lakes, ARBICO, Planet Natural (Swarm Trap) • San Jacinto • Gemplers

Bee Pheromone Lure: Miller Bee • Phero Tech • San Jacinto

Bee Pheromone Spray to

attract bees: Phero Tech (Fruit Boost)

Bee Varroa Mite Trap:

Phero Tech

Yellowjacket Traps:

Sterling Intl. (Rescue! Yellowjacket) • Woodstream, Great Lakes, Peaceful Valley, Natural Insect Control (Victor Fly-In-Saucer) • Woodstream, Harmony, Santa Cruz Hort, ARBICO, Peaceful Valley, Great Lakes, The Natural Gardening (SureFire) • Woodstream (Safer Pheromone Trap)

Yellowjacket Attractant (Sterling)

Least-Toxic Chemical Controls

Boric acid:

Whitmire (PT 249 35% boric acid)

Diatomaceous Earth (with pyrethrin): See ANTS

Insect Repellent Garbage Bags: Pest Guard

Insecticidal Soap:

For Africanized Bees:

Harmony (M-Pede)

Pyrethrin:

Neogen (Capsul-Ban microencapsulated, Formula 66, LD-44Z) • Roxide • Whitmire (PT 175 microencapsulated, PT-565, PT-505 XLO) • Gardener's Supply (Pyrethrin and Rotenone) • Bayer (Harmonix) • Woodstream (Safer Flying Insect)

Essential Oils:

Ecosmart (Bioganic, EcoPCO, EcoIPM) • Sterling (WHY)

Mint Oil:

Woodstream (Poison Free)

Resmethrin plus components that "freeze" wasps:

Roxide (Revenge Wasp & Hornet Killer)

Silica Aerogel (with pyrethrin): See ANTS

Sting Stop (for pain): Nature's Way

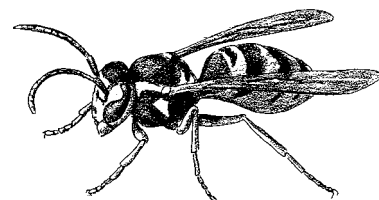
Wasp/Bee Sting Medication:

Self-injected epinephrine:

Verus (Twinject) • Dey Labs (EpiPen)

First-aid for bee stings:

Miller Bee (Sting Aid)



MISCELLANEOUS

Educational Materials

Databases (Pest Management):

Bio-Integral Resource Center (Online Organic) • University California Statewide IPM Program (IMPACT Database) • World Wide Web
On-line, CD-ROM database of registered pesticide products, chemical fact sheets, MSDS sheets:

NPIRS User Services (Pest Bank) • World Wide Web

Pest Management Publications & AV Products:

Books on agriculture, horticulture, pest management:

Jack and the Beanstalk

Integrated Pest Management publications:

Bio-Integral Resource Center (BIRC)

Slides on biological control:

BCW

Slides, reference library, training manuals:

Univar

Videos introducing IPM in agriculture, landscaping, & greenhouses, two pest ID slides kits:

San Luis Video

Identification & Monitoring

Computers & Software:

Apple scab forecasting equipment:

Gemplers (PSAOC consultant software)

Compost maturity test kit: Woods End (Solvita)

Portable data recording equipment:

Wescor (Biophenometers)

Information/Identification Services & Supplies:

Entomological specimens (10,000 species): Combined Scientific Supplies, Great Lakes, Gemplers, BioQuip

Equipment, supplies & books: BioQuip • Gemplers

Ichneumonid identification service: American Entomological Institute

Identification and information service for pests and beneficial insects: CAB Biosci • BioNet

Pheromone Monitoring Traps: Trece (Storgard, Pherocon)

Identification of Entomopathogenic Nematodes: CAB Biosci

Information, identification of agricultural, urban insects:
Cooperative Extension Service (local offices)

Information service on biological control: CAB Biosci • Bio-Integral Resource Center (BIRC)

Information on Pesticide Toxicity: <http://ace.orst.edu/info/extoxnet> • <http://www.pesticideinfo.org> • Bio-Integral Resource Center

Information on BIRC Publications: <http://www.birc.org>

Information on Biocontrol Insectaries: ANBP

IPM Toolkit: UPMA

Online Organic Database: <http://www.birc.org>

Sustainable Agriculture Website:

<http://www.sarep.ucdavis.edu/grants/database>

Monitoring Devices:

Data Logger: Onset Computer (Hobo)

Electronic insect counter: Automata (Data-Lynx BUGCOUNT)

Flashlight with red filters: (Streamlight)

Flashlight Helmet: Streamlight (Cyclone)

Inspection mirror: Applied Bionomics, Harmony Farm (Magnifier hand lenses, headband magnifiers) • Professional Equipment

Microscopes: Gemplers (Donegan Optical) • RF Inter-Science, Gemplers (Macroscope 25, Macroscope 45, Macroscope 18-36 Zoom)

Microwave Termite Detectors: Termatrac (Termatrac)

Moisture meters: Delmhorst (Delmhorst) • Jim Simmons • Professional Equipment

Termite Sniffers: Professional Equipment

Radon Test Kits: Professional Equipment

Infrared Cameras (for termites): Professional Equipment

Sweep nets: Oakfield Apparatus • BioQuip • Great Lakes

Trap for Asian Ladybeetles: Gardener's Supply

Temperature monitor: Gempler's

Maximum-Minimum Thermometer: BioQuip

Degree-day Calculators: Gemplers • BioQuip

Vacuums: ARBICO (Bug Sweep) • BioQuip Products (Insect Vacs) • D-VAC Company (D-VAC) • Gardener's Supply (Bug Vacuum) •

Proteam (Sierra, Optimus) • Peaceful Valley

Water bacteria analysis kits: Professional Equipment • Idexx • Neogen

Weather monitor & disease forecasting system: Automata (Data-Lynx Degree Day) • Neogen (EnviroCaster) • Gemplers (Pessl Metos Products)

Pesticide Residue Detection:

Aquatic sampling equipment: Wildlife Supply

Detection of carbamate, organophosphate & thiophosphate residues in air, water, soil or surfaces: Neogen (Veratox, Ticket) • Silverlake

Lead testing kit: Professional Equipment • Planet Natural

Lead, pesticides, nitrates test kit: Silverlake

Physical Controls

Asian Ladybug Trap: Springstar

Row Covers: Charley's (Harvest-Gard) • See Beetles (crop pests)

Plum Curculio Traps: Great Lakes

Varroa Mite Traps: Great Lakes

Stinkbug Trap: Sterling

Biological Controls and Supplies

Artificial Diets:

For lacewings & lady beetles:

Rincon-Vitova • The Ladybug Company • Greenmethods (Biodiet) • Oliver • Planet Natural • Gardens Alive (Bug Pro)

Wheat for lacewings & lady beetles:

Planet Natural • Peaceful Valley, Charley's (Good Bug) • Natural Insect Control

Teflon Insect Barrier:

Local Hardware Store (see Plumbing Supplies)

Habitat:

Bat house to encourage insect predation by bats:

Gardener's Supply (Bat House) • Peaceful Valley • Natural Insect Control • Harmony • Planet Natural

Seed mixture for beneficial insect habitat:

Gardens Alive! (Haven Flowering Herbs, Haven Cover Crop) • Peaceful Valley (Good Bug Blend, Border Patrol) • Lohse Mills • Gardner's Supply • W. Atlee Burpee • Renee's

California Native Grass and Flower Seeds: Pacific Coast Seeds

Soil analysis test kits: BioQuip • Great Lakes • Peaceful Valley

Transplants for beneficial insect habitat:

Cornflower Farms

Insect and Microbial Rearing Supplies:

Autolysed yeast (rearing medium, fruitfly attractant, baiting control): Bugs for Bugs

Sitotroga cerealella (moth eggs for Trichogramma rearing medium):
Kunafin

Supplies for rearing insect pathogens: International Mycological Institute • Oliver • Life Technologies

Pollination aids:

Phero Tech (Fruit Boost)

Pollinators: bumble bee, *Bombus* spp.: W. Neudorff • Biobest • Koppert • Natural Insect Control • Bio Bee

Mason bee lodge: Arbico

Predators:

Chinese praying mantid, *Tenodera aridifolia sinensis*: ARBICO • Planet Natural • Natural Insect Control • Natural Pest Controls • Peaceful Valley • A-1 Unique • Nature's Control • Greenmethods

Red hybrid earthworms, *Lumbricus* sp.:

A-1 Unique • Rincon-Vitova • Natural Insect Control

Earthworm cocoons: Gardens Alive

Pesticide Application Equipment

Application equipment for structural pest control:

B & G • Harmony • Peaceful Valley • Professional Equipment • Univar

Bait applicator:

Specialty Products (BaitGun) • Whitmire • Blue Diamond

Dusters:

B&G Equipment (B&G Dusters) • AgrEvo (Actisol) • Planet Natural, Nitron, Peaceful Valley, Gardens Alive, Charley's (Earth Duster) • Technicide • Univar (Getz Gun) • Parker (P.E.S.T. Power Applicator) • Woodstream, Peaceful Valley (Pest Pistol)

Electrostatic sprayers/dusters:

Electrostatic Spraying Systems • Pristine • Bee Tee

Sprayers:

Planet Natural • Bee Tee, Pristine (Murayama) • Gardener's Supply

(Spraydoc) • Green Pro • Harmony • Univar • Gempler's • Lescro

Tool for Injecting Wall Voids: Paragon • B & G

Protective Skin Coating: Gloves in a Bottle

Respirators:

BWS • Harmony • Lab Safety Supply (full hood respirator) • Sperian (Series 86 Disposable APR) (Call Sperian for local distributors) • Univar

Production Supplies

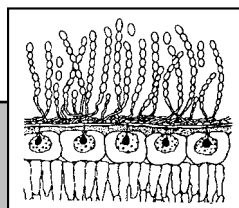
Irrigation Equipment: Harmony

Organic Fertilizer: Gardener's Supply • San Jacinto • Harmony • Peaceful Valley • New Era

Recycling Resources

Compost, Used Materials: Calmax • New Era

Portable Bailer to Recycle Solarization Plastic: Kennco



PLANT DISEASE MANAGEMENT

CROWN GALL DISEASE

Biological Controls

Microbial Fungicides:

Agrobacterium radiobacter strain K84: AgBioChem, Necessary, Harmony (Galltrol-A, Gallex) • New BioProducts, IPM Labs (NoGall K1026)

PATHOGENS

of Flowers, Foliage and Fruit

Identification & Monitoring

Apple scab forecasting equipment:

Harmony (Qualimetrics Hygrothermograph) • Automata (Scab Off software) • Automata (Grapemold)

Lettuce downy mildew prediction software: Automata (Let Down)

Indicator plant (Summer Madness petunia) for tomato spotted wilt: Ball Seed

Tomato spotted wilt virus detection kit: Agdia

Plant disease detection kits: Neogen (Reveal) • Hydros

Physical Controls

Fungal Barriers:

Antitranspirants:

Green Pro (Vita Coat) • Miller (Vapor Gard) • PBI/Gordon (Transfilm) • Precision (Preserve) • Wilt-Pruf (Wilt-Pruf) • Nature's Touch (Leaf Cote Clear) • Better Flora (Wilt Pruf)

Kaolin coating: BASF, Peaceful, Gardens Alive (Surround)

Horticultural Controls

Disease-Resistant Roses:

Heritage Rosarium • High Country • Hortica • Heirloom • Jackson and Perkins • Vintage Gardens • Rose Catalog • American Rose Society

Biological Controls

Microbial Fungicides:

Bacillus amyloliquefaciens: Certis •

Novozymes

Bacillus pumilis (biofungicide):

AgraQuest (Sonata) • Rincon-Vitova (Activate)

Bacillus subtilis (Serenade, Rhapsody):

AgraQuest, Gardens Alive • BioWorks (Cease)

Coniothyrium minitans (for Sclerotinia):

Prophyta

Compost tea brewers: Growing Solutions

• SoilSoup • Microb Brewer • Sustainable

Pseudomonas fluorescens (for fire blight):

NuFarm (Blight Ban)

Pseudomonas solanacearum (non-patho-

genic for bacterial wilt control): Natural

Plant Protection

Pseudomonas syringae (for postharvest): Jet Harvest (BioSave)

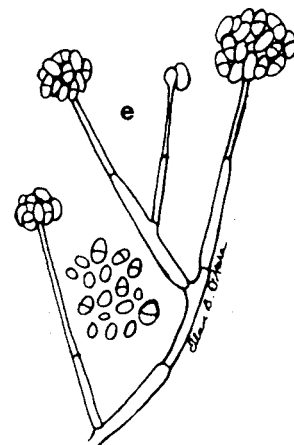
Trichoderma harzianum (for grey mold): Makhteshim-Agan

(Trichodex) • Bioworks (Plant Shield) • Borregaard • Binab (Plant Gard)

Trichoderma sp. (for chlorotic vine leaf curl): Binab (Binab-T)

Streptomycin antibiotic (for pear, apple fire blight):

Peaceful Valley (Agrimycin)



Least-Toxic Chemical Controls

Agents for Induced Resistance: Syngenta (Actigard) • Garden's Alive (harpin, Green Guard) • JH Biotech (Fosphite) • Organic Labs (Plant Doctor) • Plant Health Care (Harpin)

Bicarbonate with sticker: Gardener's Supply (Remedy) • Monterey • Bioworks (Milstop) • Harmony (Kalgreen)

Calcium Foliar Spray: Bonide (Rot-Stop) • Monterey

Essential Oil: Whitmire (Valero) • EcoSmart (Sporan) • Monterey

(PhytoGard) • Soil Technologies (Fungastop) • Brandt (Sporatec)

Garlic and Oil: JH Biotech, Safer Gro, Harmony (Mildew Cure)

Giant Knotweed Extract: Marrone (Regalia)

Copper & Sulfur Fungicides:

Monterey, Harmony (Liqui-Cop) • Monterey (Nordox, Copper Count N, Micronized Sulfur) • Harmony, Peaceful (Copper Hydroxide) • Bonide, Gardener's Supply (Bonide Garden Dust) • Gardens Alive, Planet Natural (copper soap) • Woodstream (Rose and Flower) • Stoller (TopCop)

Flowable sulfur formulation:

Woodstream, Harmony, Charley's, (Safer Garden Fungicide) •

Peaceful Valley • Stoller (That) • Harmony (Kumulus)

Fungicidal Soap (copper and soap): Gardens Alive (Soap Shield)

Peroxide Oxidants: Biosafe (Oxide, Zero Tol)

Oil and Lime-Sulfur:

Best Sulfur Products

Calcium Thiosulfate:

Best Sulfur Products (Thiocal)

Highly refined oil (from petroleum) & sulfur: Peaceful Valley

Neem Products (for mildew, botrytis, rust): Certis, Harmony, Peaceful Valley (Trilogy, Triact) • Greenlight • San Jacinto (Organica)

Potassium Phosphite (Fosphite): JH Biotech • AgBio (AgriFos) • Organic Labs (Plant Doctor)

Horticultural Oil: See APHIDS

ROOT PATHOGENS

Identification and Monitoring

Detection kit for pathogens:

Neogen (Reveal) • Agdia • Hydros

Physical Controls

Heat, Steam and Hot Water:

Heat (electric soil sterilizer):

Great Lakes, Gemplers

Solarization Plastic:

Mipco • Peaceful Valley

Portable Bailer to Recycle Solarization Plastic:

Kennco Manufacturing

Steam Machines and Boilers:

Sioux • Saskatoon

Biological Controls

Microbial Fungicides:

Burkholderia cepacia: Soil Technologies

Fusarium oxysporum (non pathogenic): Natural Plant Protection

Gliocladium virens (for pythium, rhizoctonia): Certis, Harmony, Gardens Alive, Peaceful (SoilGard) • AgBio (Primastop)

Gliocladium sp. (for fusarium, pythium): Kemira Oy, Hydro-Gardens (Gliomix)

Microbial Antagonists: San Jacinto (MicroGro) • Rincon-Vitova • Novozymes

Pythium oligandrum: Gowan (Polyversum)

Pseudomonas cepacia: Soil Technologies (Bac-Pack)

Pseudomonas solanacearum (non-pathogenic): Natural Plant Protection

Streptomyces griseoviridis strain K61 (for fusarium, damping off, pythium, phytophthora, etc.): Kemira, Hydro-Gardens (Mycostop) •

AgBio (Mycostop) • Peaceful Valley • Rincon-Vitova • Harmony •

Plant Health Care • Planet Natural

Streptomyces sp.: Spray-N-Grow (RootGuard)

Streptomyces lydicus (for fusarium, rhizoctonia, pythium):

Natural Industries (Actinovate)

Trichoderma harzianum (soil treat-

ment for root pathogens): BioWorks

(Rootshield, T-22) • Binab •

Borregaard • Harmony

Trichoderma atroviride (cold toler-

ant): AmPac (Plant Helper)

Trichoderma gamsii: Isagro (Tenet) •

AgraQuest (BioTam)

Disease-Suppressive Seed or Soil Treatment:

Bacillus subtilis: Rincon-Vitova (Activate) • Gardens Alive • Growth Products (Companion) • Bayer (Kodiak)

Bacillus uniflagellus: Rincon-Vitova (Activate)

Bacillus spp. (mixture): Rincon-Vitova

Burkholderia cepacia: Soil Technologies

Trichoderma harzianum (seed treatment for root pathogens): BioWorks (Rootshield, T-22) • Agricola Mas Viader

Trichoderma gamsii: Isagro (Tenet) • AgraQuest (BioTam)

Neemcake Soil Amendment: Peaceful Valley • Agro

Disease-suppressive container mixes or compost:

Earthgro (Scotts) • Sun-Gro • Louisiana Pacific • O.M. Scotts

(Hyponex) • Paygro

Micronutrients: Spray-N-Grow

Compost Tea Brewing Equipment: Growing Solutions • SoilSoup •

Microb Brewer • Sustainable • Willamette

Endomycorrhizae to increase plant nutrition and help protect against disease:

Glomus sp.(VAM fungus): Bioscientific (Mycorise) • BioOrganic •

Mikro-Tek • Biological Crop • Natural Fertilizer • Rincon-Vitova •

AgBio • Novozymes • Mycorrhizal Applications • Peaceful Valley

Ectomycorrhizae (forest nurseries, urban trees):

Pisolithus tinctorius: Rincon-Vitova • Peaceful Valley • Plant Success •

AgBio • Mycorrhizal Applications

Pisolithus, *Rhizopogon* mixtures: Novozymes

Myconate (stimulates mycorrhizae): Plant Health Care

TREE WOUND PATHOGENS

Biological Control

Trichoderma sp.: Binab (Binab-T), to treat tree wounds

TURF DISEASES

Identification & Monitoring

Detection kit for turf diseases:

Neogen(Reveal) • Neogen (Alert) • Hydros

Compost maturity test kit:

Woods End (Solvita)

Physical Controls

Turf Aerator:

Harmony, Peaceful Valley (Gorilla Core Aerator)

Horticultural Controls

Brown patch resistant turfgrass:

Turf Seed (Tar Heel, Wolfpack, Coronado Gold, Olympic Gold)

Biological Controls

Microbial Soil Amendments:

New Era Farm Service (composted soil amendments) • Jade Mountain (composting toilet) • NRG (Activate)

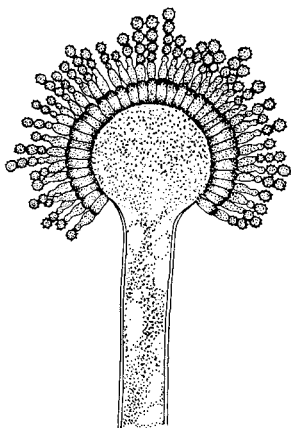
Beneficial microorganisms that attack

turf pathogens:

Gardener's Supply (Green Magic) • Peaceful Valley (Restore) •

Bioworks (Turfmate) • Soil Technologies (BacPack) • Natural

Fertilizer • Novozymes (Green Releaf) • NRG (Slap, Nemaguard)



MISCELLANEOUS

Educational Materials

Pest Management Publications & AV Products:

Integrated Pest Management publications, videos:

Bio-Integral Resource Center (BIRC)

Identification & Monitoring

Apple scab forecasting equipment:

Automata (Scab Off)

Information/Identification Services:

Fungal identification service and supplies:

CAB Biosci

Information, identification of agricultural,

urban insects: Cooperative Extension

Service (local offices)

Information service on biological control

using microbes: CAB

Biosci

Miscellaneous Compost Aids: Charley's (Compost Thermometer) •

Natural Insect Control (Earthworms) • Woods End (Compost Maturity Test Kit)

Compost Tea Brewing Equipment: Growing Solutions • SoilSoup •

Microb Brewer • Sustainable • Willamette • Peaceful Valley

Composting Toilet: Real Goods

Mycotoxin Detection Kits: Neogen

Nematode identification service: CAB Biosci

Plant Disease Detection Kits (for fusarium mold, pythium, phytophthora, rhizoctonia, sclerotinia, brown patch, dollar spot): Neogen Corp. (Alert, Agri-Screen, Reveal) • Hydros • Agdia

Plant Disease Detector: Automata Inc. (Leaf Moisture Sensor)

Plant Disease Prediction Software (for general fungal disease, apple scab, botrytis, powdery mildew): Automata Inc. (GET WELL) •

Automata (Scab Off) • Automata (GrapeMold)

Recycler for Solarization Plastic (Portable Bailer): Kennco

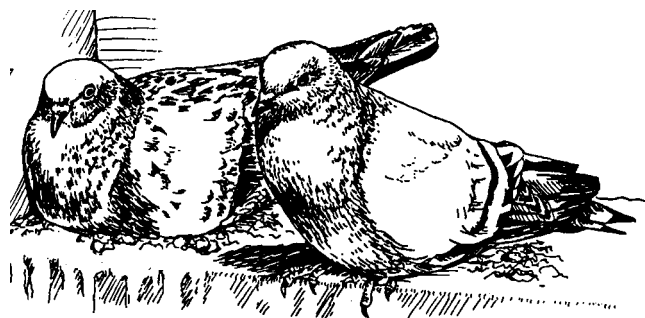
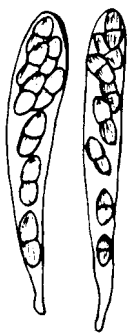
Soil Testing Kits, pH Meters: BioQuip • Ben Meadows • Harmony •

Peaceful Valley • Gemplers • Woods End (Soil Respiration) • Arbico

Soil Testing, Microbials and Minerals: Earthfort

Soil Test Strips (pH, NPK): Peaceful Valley • Harmony • Charley's

IPM Tool Kit: UPMA



VERTEBRATE MANAGEMENT

BATS

Educational Materials

Bat House Construction Booklet:

Bat Conservation International, Plow & Hearth, Peaceful Valley, Harmony

Bat Houses: Natural Insect Control • Harmony • Peaceful Valley

Identification & Monitoring

Flashlight with red filters:

Streamlight (Streamlight)

Physical Controls

Copper mesh hole filler:

Allen Special Products (Stuf-Fit)

Netting:

Wildlife Control (Bat Kit, Swallow & Woodpecker Kit for home-made bat check valve, Wildlife Net) • Gemplers (Wildlife Net)



BIRDS

Physical Controls

Barriers & Exclusion Devices:

Wildlife Control (Pigeon Barrier) • Birdbarrier (Daddi Long Legs)

Copper mesh hole filler:

Allen Special Products (Stuf-Fit)

Metal projectors:

Wildlife Control • Bird-X • Nixalite (Nixalite) • Birdbarrier (Birdpoint) • Nixalite (E-Spike)

Netting:

Wildlife Control, Gemplers (Wildlife Net) • Bird-X • JT Eaton • Industrial, Great Lakes (Internet) • Animal Repellents • Peaceful Valley • Nichols Net • Nixalite (Netting) • Sterling Marine • Sutton • Tenax (Ornex) • Tipper, Harmony, Peaceful Valley (Tie-Net) • Birdbarrier, Birdbusters (Birdnet, Stealth Net) • BioCare • Margo

Wire exclusion systems:

Birdbarrier (Birdwire, Birdcoil) • Birdbusters • Nixalite (Flight Line)

Deterrents:

Alarms & detonators:

Bird-X (BirdGard, Tranasonic IX-L, Ultrasonic ET) • Birdbusters (Birdwailer) • Reed-Joseph (Electronic Scare Away, Scare Away)

Pyrotechnics, Multi Bang Automatic Cannon, Rotomat Revolving Platform) • Wildlife Control (ZON Propane Cannons, Shell Crackers,

Bird Bombs, Bird Whistlers, ZON Automatic Scarecrow) • Agricultural Supply, Margo (Zink Bird Banger) • Bird-X (Nixalite) • Sutton (bird bomb, cannon)

Holographic owl: Bird Busters

Distress calls to deter Canada geese:

Wildlife Control

Electric Shock Deterrent:

Birdbarrier (American Birdfence, solar)

• Avian Flyaway

Flashing light deterrent:

Bird-X (Bird Strobe Light) •

Bird Busters (Geese Away)



Reflective tape:

Reed-Joseph, W. Atlee (Scare-Away Reflecting Tape) • Wildlife Control, Agricultural Supply, Peaceful Valley (Mylar Silver Strips) • Bird-X (Irri-Tape) • Sutton

Live Traps (for starlings, pigeons, etc.):

National Live Trap • Nature House • Tomahawk (Tomahawk) • Woodstream, Harmony, Peaceful Valley, Gardener's Supply (Havahart, Victor) • Margo

Repellents:

Bird-X (Bird-Proof) • Sutton • Peaceful Valley (California Scarecrow)

Repelling balloons:

Reed-Joseph (Evil Eye) • ARBICO (Bird Scare Eye Balloon, Owl Scarecrow) • Peaceful Valley (Octopus) • Bird-X, Peaceful Valley, Gemplers (Scare Eye) • W. Atlee (Birds-Away Inflating Snake, Ollie-Owl) • Bird-X (Terror Eyes) • Gempler's • Sutton • Tanglefoot • Great Lakes

Repellent gel: Sutton • Hot Foot America

Repelling kites:

Sutton • Cochranes • Peaceful Valley

Sticky repellent:

Tanglefoot (Tanglefoot Bird Repellent) • Peaceful Valley

Sticky Adhesive:

Seabright (Stickem Special) • Gemplers, Necessary, Nixalite (Tanglefoot) • Peaceful Valley

Least-Toxic Chemical Controls

Birth Control (pigeons):

Innolytics (Ovocontrol)

Repellents:

Nixalite, Peaceful Valley • Bird-X (Bird Proof) • JT Eaton (4-the-birds) • Becker Underwood, Martinson-Nicholls (ReJexit Migrate for Canada geese, ReJexit Fog Force for pigeons, gulls, ReJexit Crop Guardian for starling, gulls, catbirds on fruit)

CATS/DOGS

Biological Controls

Guard Donkeys to Protect Sheep:

American Donkey

Physical Controls

Cat tongs:

Tomahawk, Plow & Hearth (Tomahawk)

Electric Fencing:

Gardener's Supply

Least-Toxic Chemical Controls

Repellents:

Peaceful Valley (Ropel) • Natural Insect Control • Harmony (Get Away) • Woodstream (Critter Ridder)

GOPHERS and MOLES

Biological Controls

Nematodes to Eat Insects that are Mole Food:

Certis, Harmony, Hydro-Gardens, IPM Labs, BioLogic

Beauveria bassiana (to kill soil insects that attract moles):

Troy, Hydro-Gardens, Harmony (Naturalis)

Owl Boxes (to shelter owls that prey on gophers): Rincon Vitova •

Harmony • Natural Insect Control • Peaceful Valley

Horticultural Controls

Gopher Resistant Plants: (Call BIRC for list)

Physical Controls

Barriers & Exclusion Devices:

Harmony (Root Guard Baskets) • Peaceful Valley

Tree Wrap:

Gemplers (T&G Plastic Tree Shields) • Peaceful Valley (Spiral Tree Guard)

Deterrents:

Roxide (Revenge Smoke Bomb)

Live Traps for gophers:

Harmony, Peaceful Valley, Tomahawk, Woodstream

Lethal Traps for moles:

Woodstream, Harmony (Out of Sight squeeze type, Victor, harpoon type) • Peaceful Valley

Lethal Traps for gophers:

Woodstream, Harmony, Santa Cruz Hort, Arbico, Peaceful Valley, Great Lakes, Necessary, The Natural Gardening, Gardens Alive (Black Hole, box type) • Woodstream (Victor Easy Set, Gopher Getter, squeeze type)

Least-Toxic Chemical Controls

Gopher Bait Blocks (for emergency use mainly in agriculture): JT Eaton (Answer, diphacinone)

Mole Repellent: Soil Technology, Gardens Alive (MoleRelief) •

Gardener's Supply • Becker Underwood • Peaceful Valley

Gopher Repellent: Gardens Alive (GopherRelief) • Soil Technologies

• Peaceful Valley

DEER

Physical Controls

Deterrents:

Alarms & detonators:

Critter Control • Margo

Roadside highway reflectors to deter deer: Strieter (Strieter-Lite)

Electric fencing: Gardener's Supply • Gallagher Power Fence •

Tenax • Tru-Test (electric tape) • Trident (Minnesota Fence) • Peaceful (baited electroshock post)

Wireless Fence (for guard dogs): Drs. Foster and Smith

Plastic Fence: Trident • Peaceful Valley • Harmony

IR Sensor to Turn On Sprinklers: Gardener's Supply (Water

Defence) • Charley's (Scarecrow) • Planet Natural

Heat Activated Alarm: Drs. Foster and Smith

Tree Wrap:

Gemplers (T&G Plastic Tree Shields) • Peaceful Valley (Spiral Tree Guard)

Least-Toxic Chemical Controls

Repellents: Woodstream, Peaceful Valley, Trident (Deer Away) • Millers, Peaceful (Millers Hot Sauce) • Harmony (Deer Away, Not Tonite Deer, Liquid Fence) • Peaceful Valley (Hinder Deer & Rabbit Repellent) • Peaceful Valley (Ropel) • Gardener's Supply

(Champon's) • Wildlife Management • Envirodyne (Meat Meal)

LIVESTOCK PREDATORS

Biological Controls

Donkeys to Protect Sheep:

American Donkey

Physical Controls

Alarms & Detonators:

Reed-Joseph (Scare Away Pyrotechnics, Multi Bang Automatic Cannon, Rotomat Revolving Platform) • Critter Control • Margo

Electric Fencing:

Gallagher Power Fence (Gallagher) • Gardener's Supply

Live Traps:

Tomahawk (Tomahawk) • Woodstream, Harmony, Peaceful Valley, Gardener's Supply (Havahart)

Least-Toxic Chemical Controls

Repellents:

Peaceful Valley • Planet Natural

RABBITS

Physical Controls

Electric Fencing:

Gallagher Power Fence (Gallagher) • Gardener's Supply

Live Traps:

Wildlife Management • Tomahawk, Peaceful Valley • Woodstream, Harmony • Margo

Netting:

Wildlife Control, Gemplers (Wildlife Net)

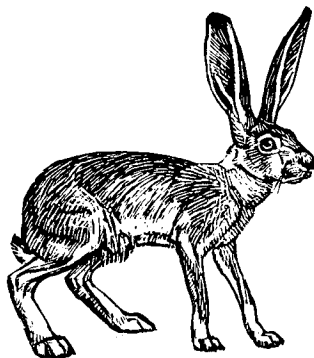
Tree Wrap:

Gemplers (T&G Plastic Tree Shields) • Peaceful Valley (Spiral Tree Guard)

Least-Toxic Chemical Controls

Repellents:

Gardens Alive (Hinder Deer & Rabbit Repellent) • Peaceful Valley (Ropel) • Envirodyne (Green Screen) • Gardener's Supply, Gardens Alive, Harmony, Peaceful Valley (Get Away) • Woodstream



RACCOONS

Physical Controls

Barriers & Exclusion Devices:

Stromberg's (Catcher-Holder Poles for animal restraint) • Tomahawk (catch poles)

Electric fencing:

Gallagher Power Fence (Gallagher) • Gardener's Supply

Wireless Fence (for guard dogs): Drs. Foster and Smith

Heat Activated Alarm: Drs. Foster and Smith

Live Traps and Carrying Cages:

National Live Trap • Safeguard (Safeguard) • Tomahawk (Tomahawk) • Wildlife Control • Woodstream, Great Lakes, Harmony, Peaceful Valley, Gardener's Supply (Havahart, Victor) • Wildlife Management • Margo

Wildlife Removal/Relocation Services:

Critter Control (for small animals only)

Least-Toxic Chemical Controls

Repellents:

Nixalite, Peaceful Valley (Ropel) • Gardener's Supply (Champon's) • Gardener's Supply, Gardens Alive, Harmony, Peaceful Valley (Get Away) • Woodstream (Critter Ridder)

RATS and MICE

Identification & Monitoring

Flashlight with red filters:

Streamlight (Streamlight)

Rodent contamination detection devices:

BioQuip (Spectronics, Blacklight Kits) • Professional Equipment

Physical Controls

Copper mesh hole filler:

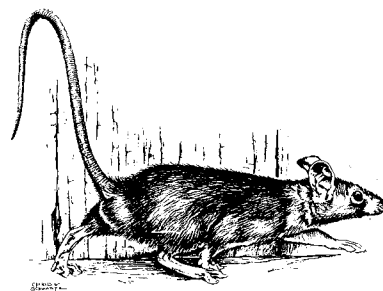
Allen Special Products (Stuf-Fit)

Traps (for rats and mice):

Sterling Intl. (Rescue! Dispose-A-Mouse) • Seabright, Phero Tech (Smart Mouse Trap) • Tomahawk (Tomahawk) • Woodstream, Harmony, Peaceful Valley, Gardener's Supply, Havahart, Victor) • Woodstream (Victor Holdfast) • Woodstream (Victor Tin Cat, Terminator) • Wildlife Management • Natural Insect Control

Glue board trap:

Woodstream (Victor Holdfast) • Bell (Trapper products) • JT Eaton (Eaton's Stick-em) • Enforcer (Enforcer Rat & Mouse Glue Traps)



Electrocutor trap:

A Trap • Professional Equipment • Woodstream

Live Trap:

Seabright • Tomahawk

Least-Toxic Chemical Controls**Tool to Place Baits and Traps:**

Arcoa (EZ Reacher)

Baits:

Peaceful Valley • Trapper Jack's (macadamia nut lure) • Bell (Detex, non-toxic monitoring bait)

Bait stations:

Bell (Protecta, RTU) • JT Eaton (Rat Depot) • Lipha Tech (Bait Safe)

Stop feed, single dose (0.075% cholecalciferol Vitamin D3):

Bell (Terad3) • Peaceful Valley

Anticoagulants:

Bell (Final, warfarin) • Bell (Liqua-Tox II, diphacinone) • Bell (Ditrac, Ditrac Tracking Powder, diphacinone) • Lipha Tech (Rozol, chlorphacinone) • Scimetrix (Kaput, warfarin)

Zinc phosphide:

Bell (ZP Rodent Bait AG) • Bell (ZP Tracking Powder)

Bromethalin: Bell Labs (Tom Cat)

SKUNKS

Physical Controls**Catch Poles:**

Tomahawk

Electric Fencing:

Gallagher Power Fence (Gallagher) • Gardener's Supply

Live Traps and Carrying Cages:

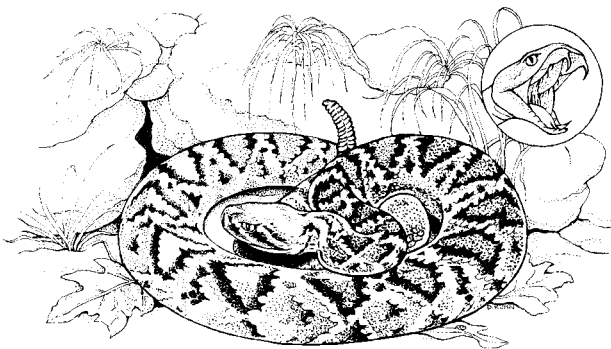
National Live Trap • Safeguard (Safeguard) • Tomahawk • Woodstream, Great Lakes, Harmony, Peaceful Valley, Gardener's Supply (Havahart) • Margo (Tru Catch) • Nichols • Wildlife Management • Natural Insect Control

Least-Toxic Chemical Controls**Repellents:**

Nixalite, Peaceful Valley (Ropel)

Skunk Deodorant:

Drs. Foster & Smith (Skunk Kleen) • Bramton, Drs. Foster & Smith • NISUS (BAC-AZAP)



SQUIRREL

Squirrel-Proof Bird Feeders:

Arundale (The Mandarin)

Live Traps:

Tomahawk • Woodstream • Harmony • Peaceful Valley

Repellent:

Harmony • Peaceful Valley • J.T. Eaton • Woodstream

WILDLIFE

Physical Controls**Control Equipment:****Cat tongs:**

Tomahawk, Harmony

Poles to catch animals:

National Live Trap • Tomahawk • Wildlife Management

Protective Gloves:

Tomahawk

Snake tongs:

National Live Trap

Alarms & Detonators:

Reed-Joseph (Scare Away Pyrotechnics, Multi Bang Automatic Cannon, Rotomat Revolving Platform) • Critter Control • Margo

Infra-Red Triggered Water Cannon:

Gardener's Supply (Water Defence) • Charley's (Scarecrow)

Heat Activated Alarm: Drs. Foster and Smith**Wireless Fences (for guard dogs):** Drs. Foster and Smith**Copper Mesh Hole Filler:**

Allen Special Products (Stuf-Fit)

Electric Fencing:

Gallagher • Gardner's Supply • Peaceful Valley • Harmony • Jade Mountain (solar electric) • Margo (for bear, wolverine)

Live traps:

Margo (for large animals) • National Live Trap • Reed-Joseph (Trap Away) • Safeguard (Safeguard) • Tomahawk, Great Lakes (Tomahawk) • Wildlife Control • Woodstream, Great Lakes, Harmony, Peaceful Valley, Gardener's Supply (Havahart, Victor)

Wildlife Removal/Relocation Services:

Margo (for large animals) • Critter Control (for small animals only)

Least-Toxic Chemical Controls**Repellents:**

Nixalite, Peaceful Valley (Ropel) • Becker Underwood (Rejexit to deter Canada geese) • MoleRelief, Gardens Alive, Soil Technologies (MoleRelief, Repellent for moles)

MISCELLANEOUS

Educational Materials**Integrated Pest Management Publications:**

Bio-Integral Resource Center

WEED MANAGEMENT



Educational Materials

Pest Management Publications & AV Products:

Integrated Pest Management publications, videos:
Bio-Integral Resource Center

Identification & Monitoring

Information/Identification Services

Information, identification of agricultural, urban insects:
Cooperative Extension Service (local offices)

Information service on biological control of weeds:
International Institute of Biological Control

Physical Controls

Barriers and Exclusion Devices:

Asphalt crack filler:

Garon Products (Crack-Fill)

Electric Shredder to Make Mulch:

Gardener's Supply (Gloria)

Mulch:

Peaceful Valley (IRT, Planter's Paper) • Birkett Mills (Mul-Tex) • Penny Newman (Rice Hull Mulch)

Sunlight Barrier (aquatic weeds):

Applied Biochemists (Aquashade)

Weed control fabric/plastic:

Easy Gardener, Peaceful Valley (WeedBlock Landscape Fabric) • Fiberweb, Planet Natural (Tyar Landscape Fabric) • Gardener's Supply (Weed Mat) • Gardens Alive! • Peaceful Valley (IRT Plastic) • Fiberweb (Tree Circles)

Flamers:

Ben Meadows • Forestry Suppliers (Panama) • Flame Engineering, Planet Natural, Harmony (Red Dragon) • Peaceful Valley • Planet Natural • Gemplers • Flame Weeders • Rittenhouse • Sunburst

Heat Treatment (system using boiling water):

Sunburst

Heat Treatment (portable propane radiant heat): Forevergreen • Rittenhouse

Skin Protectant:

Poison oak/ivy cleanser/prevention:

Masune (Ivy Block, Technu)

• Gempler's (Technu) • Sawyer (Itch Balm)

Weeding Animals:

Books, pamphlets, lists of breeders:

American Donkey & Mule • Natural Colored Wool Growers'

Weeding Tools:

Brush-clearing tools: Forestry Suppliers

Hand tools: Gardener's Supply • Smith & Hawken • Peaceful Valley • A.M. Leonard • Weed Wrench (Weed Wrench, woody shrubs) • The Natural Gardening (Thistle Monster)

Mechanical Weeder: Weed Badger (Tiller, Qwik-Disk, Cyclone Spade, Mower, Undercutter)

Mechanical harvester: Hockney Weed Cutter (underwater weeds)

Rotary cutters: Bush Hog (Bush Hog Rotary Cutter)

Tiller/mulcher/mower: Weed Badger (Weed Badger)

Weedeater: BeeTee Equipment Sales (Husqvarna)

Weed Hound: Hound Dog Products (for dandelion)

Biological Controls

Bacterial Biostimulation for Pond Maintenance:

Ben Meadows, Gemplers (Pond Saver) • Enviro-Rep (Super Bug)

Sterile grass carp fish (for aquatic weeds):

Keo Fish Farms (diploid and triploid) • Richmond Fisheries

California Native Plants: California Native Plant Society

Herbivores:

Aphthona spp. (beetle for leafy spurge): BCW

Aphthona nigricutis (beetle for leafy spurge): BCW

Aphthona lacertosa (beetle for leafy spurge): BCW

Aplocera plagiata (inchworm for St. John's wort): BCW

Ceutorhynchus litura (thistle weevil for Canada thistle): BCW

Chrysolina quadrigemina (beetle for St. johnswort): BCW

Cypocleanus achates (knapweed root weevil): BCW • ARBICO

Eustenopus villosus (weevil for yellow starthistle): BCW • California Bioworks

Gallerucella pusilla (purple loosestrife defoliating weevil): BCW

Gymnetron antirrhini (toadflax seedcapsule weevil): BCW

Larinus obtusus (knapweed weevil): BCW

Larinus minutus (knapweed weevil): BCW

Longitarsus jacobaeae (flea beetle for tansy ragwort): BCW

Mecinus janthinus (for toadflax): BCW

Metzneria paucipunctella (for knapweed): BCW

Microlarinus lareynii (weevil for puncturevine): Peaceful Valley

Oberea erythrocephala (beetle for leafy spurge): BCW

Spurgia esulae (gall midge for leafy spurge): BCW

Urophora affinis (gall fly for knapweed): BCW

Urophora cardui (gall fly for Canada thistle): BCW

Urophora quadrifasciata (gall fly for knapweed): BCW

Tyria jacobaeae (cinnabar moth for tansy ragwort): BCW

Distributes stem & seed weevils against puncture vine:

CALTEC Agri Marketing Services • Peaceful Valley

Weeder Geese (brown Chinese):

Holderread's Waterfowl Farm & Preservation Center • Morris Farms & Hatcheries

Weeding Chickens:

Murray McMurray Hatchery • Stromberg's Chicks & Game Birds Unlimited

Microbial Herbicides:

Alternaria cassiae (for sicklepod, available sporadically): Dow Agro (Casst)

Colletotrichum gloeosporioides (for northern jointvetch, available sporadically): No current supplier

Phytophthora palmivora (available sporadically for stranglervine): Valent USA (DeVine)

Phoma macrostoma (turf weeds): Scotts

Sclerotinia minor (turf weeds): Sylvan

Streptomyces (rice weeds): Marrone

Burkholderia A396 (Reg. Pending): Marrone



Least-Toxic Chemical Controls

Application equipment:

Forestry Suppliers (Hypo-Hatchet Tree Injectors) • AG Spray Equipment

20%-25% Acetic Acid: Bradfield • Ecoval • Pharm Solutions

Herbicidal Soap (postemergent):

Monterey, Harmony (QuiK Weed) • Gardens Alive (WeedAside) • Woodstream (Concern) • Certis (Final San-O)

Herbicidal Essential Oil (postemergent):

EcoSmart (Bioganic, EcoIPM) • North Country (Burnout) • Monterey (Burnout) • St. Gabriel (Burnout 2) • EcoSmart (Matran2) • Harmony • JH Biotech, Peaceful Valley (Weed Zap) • Brandt (Matratec) • Cutting Edge, Peaceful Valley (Avenger) • Soil Technologies (Phydura)

Citric Acid: Summerset (All Down)

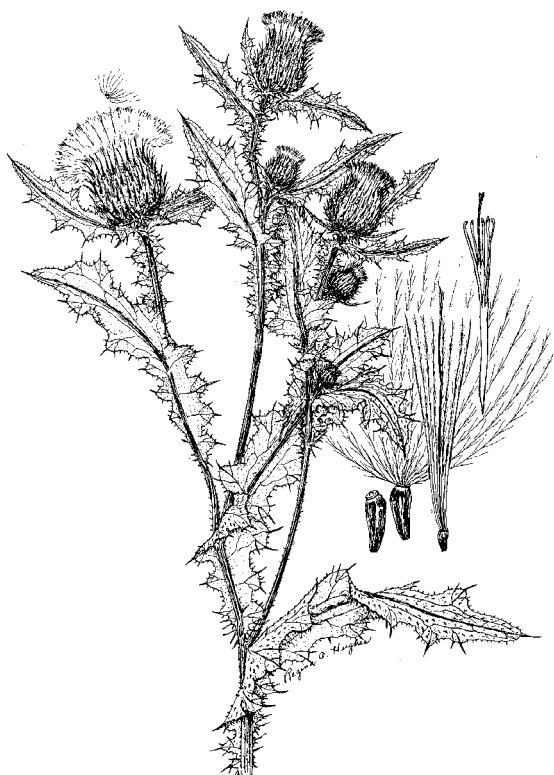
Fatty Acid Herbicide: Planet Natural (Scythe)

Iron chelate: Gardens Alive (Iron-X) • Scotts (Fiesta)

Least-Toxic Herbicide (corn gluten meal pre-emergent):

Grain Processing • Soil Technologies • Gardens Alive (WOW) • Fertilizer, Gardener's Supply, Peaceful Valley, North Country (Weedstop) • Floyd Rogers • Manning Agricultural • Rhodes • Safe Earth • Walts • Blue Seal • Soil Technologies • Harmony

Corn gluten hydrolysate: Grain Processing:



ADDRESSES OF PRODUCERS AND SUPPLIERS

A

A-1 Unique Insect Control, 5504 Sperry Dr., Citrus Heights, CA 95621; 916/961-7945, Fax 916/967-7082; ladybugs@unique.com; www.a-1unique.com

Abby Laboratories (Quality Blending), 15840 Central Avenue NE, Ham Lake, MN 55304; 763/422-0402, Fax 763/422-0405; www.qualityblending.com

Acoustic Emission Consulting, 5000 San Juan Avenue, Suite D, Fair Oaks, CA 95628; 916/965-4827, Fax 916/965-4350; www.aeconsulting.com

Actron Inc., PO Box 572244, Tarzana, CA 91357; 800/866-8887, 818/654-9788; www.actroninc.com

Aerogen (see The Aerogen)

AgBio Inc., 9915 Raleigh St., Westminster, CO 80031; 877/268-2020, 303/469-9221, Fax 303/469-9598; agbio-inc.com

AgBioChem Inc., 10795 Bryne, Los Molinos, CA 96055; 530/586-1561, Fax 530/527-6288; www.agbiochem.com

Agdia Inc., 30380 County Road 6, Elkhart, IN 46514; 800/622-4342, 574/264-2014, Fax 574/264-2153; www.agdia.com

AgraQuest (see Bayer Crop Science), 1540 Drew Avenue, Davis, CA 95618; 530/750-0150, Fax 530/750-0153; www.agraquest.com

Agricola "El Sol", 30 Calle 11-42, Zona 12, GUATEMALA, C.A.; tel. 4760496, Fax 47604-96; www.agricolaelsol.com

Agricola Mas Viader, Mas Viader 7, 17244 Cassa de la Selva, Girona, SPAIN; +34/(9) 72 46 04 15, Fax +34/(9) 72 46 04 15; www.horticom.com

Agricultural Supply, 1435 Simpson Way, Escondido, CA 92029; 760/737-2442, Fax 760/741-9412, www.agsupply.com

Agri Sud Est Bossay, 125 Rue de la Gare, 74100 Lepas de L'echelle, FRANCE; +0450398180, Fax +0450399594; www.agrisud.org

AgriZap Inc. (see A-Trap USA), 721 East Main St., Ventura, CA 93001; 888-332-3728, 805/652-1117, Fax 805/652-1155; www.raticator.com

Agro Logistic Systems, PO Box 5799, Diamond Bar, CA 91765; 800/425-3388, 714/990-9220, Fax 714/990-9222; www.agrologistic.com

Agro MDT, Prostomaya St. 6, Moscow, RUSSIA; www.agromdt.ru

AG Spray Equipment, 1100 New Industry Lane, Hopkinsville, KY 42240; 800/637-7172, 270/886-3182, Fax 270/885-7392; www.agspray.com

Air Products and Chemicals, 7201 Hamilton Blvd, Allentown, PA 18195; 610/481-8817; www.airproducts.com

Allen Special Products Inc., PO Box 605, Montgomeryville, PA 18936; 800/848-6805, Fax 215/855-2055

Allergy Control Products Inc., 1620D Satellite Blvd., Duluth, GA 30097; 800/255-3749,

203/297-6214, Fax 203/796-0239; www.allergycontrol.com

American Bio-Systems, PO Box 1368, La Quinta, CA 92247; 888/371-3353, Fax 888/708-5353; www.bio-systems.com

American Donkey & Mule Society, PO Box 1210, Lewisville, TX 75067; 972/219-0781, Fax 972/219-0781; www.lovelongears.com

American Entomological Institute, 3005 SW 56th Ave., Gainesville, FL 32608-5047; 352/377-6458, Fax 352/377-6458; www.amentinst.org

American Insectaries, 243 S. Escondido Blvd. #318, Escondido, CA 92025; 760/747-2920, Fax 760/489-0353; www.americaninsectaries.com

American K-9 Team, PO Box 425, Tarpon, FL 34688; 727/742-5804; www.k9teams.com

American Rose Society, 8877 Jefferson Paige Road, Shreveport, LA 71119-8877; 318/938-5402, Fax 318/760-5405; www.ars.org

A.M. Leonard, Inc., 241 Fox Dr., PO Box 816, Piqua, OH 45356; 800/543-8955, 937/733-2694, Fax 800/433-0633; www.amleo.com

Amos Rubin (Int.), 14, Rahavat Ilan, Givat Shmuel 54056, ISRAEL; 972-3-5351798, Fax 972-3-5341019

Ampac Biotech, 1380 North Abby, Fresno, CA 93703; 559/266-8324, Fax 559/233-1068; www.ampacbiotech.net

Andermatt Biocontrol, Stahlmatten 6, 6146 Grossdietwil, SWITZERLAND; +41 62 917 5005, Fax +41 62 917 5006; www.biocontrol.ch

Appalachian Log Structures, PO Box 614, Ripley, WV 25271; 800/458-9990, 304/372-6410; www.applog.com

Applied Biochemists, W175 N11163 Stonewood Drive #234, Germantown, WI 53022; 800/558-5106, Fax 262/255-4268; www.appliedbiochemists.com

Applied Bionomics Ltd., 11074 W. Saanich Rd., Sidney, BC, CANADA V8L 5P5; 877/656-2123; 250/656-2123, Fax 250/656-3844; www.appliedbionomics.com

ARBICO, PO Box 8910, Tucson, AZ 85738; 800/827-2847, 520/825-9785, Fax 520/825-2038; www.arbico.com

Arcoa Industries (ArcMate), 911 S. Andreason Dr., Escondido, CA 92029; 888/637-1926; 760/599-6915, Fax 760/599-6986; www.arcmate.com

Arnold Brothers, PO Box 450, Fairacres, NM 88033; 575/526-6165, Fax 575/526-8061

Arundale Products, 5444 Highland Park Dr., St. Louis, MO 63110; 800/866-2473, 314/652-1220; www.skycave.com

A Safe Pest Eliminators, 11338 SW 158th Place, Miami, FL 33196; 305/388-1128; http://naturalantbait.com

Association of Natural Biocontrol Producers (ANBP), PO Box 1609, Clovis, CA 93613; 559/360-7111, Fax 800/553-4817; www.anbp.org

Associates Insectary, PO Box 969, Santa Paula, CA 93061; 805/933-1301, Fax 805/933-1304; www.associatesinsectary.com

A-Trap USA, 721 East Main St., Ventura, CA 93001; 888-332-3728, 805/652-1117, Fax 805/652-1155; www.raticator.com

Automata Inc., 138 New Mohawk Road, Nevada City, CA 95959; 800/994-0380, 530/478-5882, Fax 530/478-5881; www.automata-inc.com

Avian Flyaway, 510 Turtle Cove, Suite 109, Rockwall, TX 75087; 800/888-0165, 972/771-6679, Fax 972/722-0165; www.avianflyawayinc.com

Azienda Agraria Giardina, S.P. 104, Contrada Carrozzieri Milocca, 90600 Siracusa, ITALY; 0931-721444; www.agricolagiardina.it

B

Ball Seed Co., 622 Town Rd., West Chicago, IL 60185; 800/879-2255, 630/231-3500, Fax 630/231-3605; www.ballhort.com

BASF Professional Pest Control, 26 Davis Drive, PO Box 13528, Research Triangle Park, NC 27709; 800/327-4645, 919/547-2000; http://pestcontrol.basf.us

Bat Conservation International, PO Box 162603, Austin, TX 78716-2603; 800/538-BATS, 512/327-9721, Fax 512/327-9724; www.batcon.org

Bayer Animal Health, 12707 Shawnee Mission Parkway, Shawnee, KS 66216; 913/631-4800; www.animalhealth.bayer.com

Bayer Crop Science, PO Box 4913; 8400 Hawthorn Rd., Kansas City, MO 64120; 816/242-2000, Fax 816/242-2659; www.cropscience.bayer.com

Bayer ES (Environmental Science), 2 TW Alexander Drive, Research Triangle Park, NC 27709; 800/331-2867; www.backedby-bayer.com

BCW (see Biological Control of Weeds)

Becker Underwood (see BASF), 801 Dayton Ave. PO Box 667, Ames, IA 50010; 800/232-5907, 515/232-5907, Fax 515/232-5961; www.beckerunderwood.com

Bee Tee Equipment Sales, 7880 Patterson Rd., Livermore, CA 94550; 925/961-8750, www.beeteequipment.com

Bell Laboratories Inc., 3699 Kinsman Blvd., Madison, WI 53704; 608/241-0202, Fax 608/241-9631; www.belllabs.com

Beneficial Insectary, 9664 Tanqueray Ct., Redding, CA 96003; 800/477-3715, 530/226-6300, Fax 530/226-6310; www.insectary.com

Ben Meadows Co., PO Box 5277, Jamesville, WI 53547; 800/241-6401, Fax 800/628-2068; www.benmeadows.com

Best Sulfur Products (BSP) (see Tersenderlo Kerley), 5427 East Central Avenue, Fresno, CA 93725; 800/800-4854, 559/485-0114, Fax 559/264-1715; www.tkinet.com

Better Flora, 18624 Downing Rd., Kearney, MO 64060; 800/467-4548, 816/320-3397, Fax 816/630-2399; www.better-flora.com

B & G Equipment Company, 135 Region South Dr., PO Box 1190, Jackson, GA 30233; 800/544-8811, 678/688-5601; www.bgequip.com

- Binab Bio-Innovation AB**, Bredholmen, SE-545 92 Algaras, SWEDEN; 46-505-10093, Fax 46-505-10054; www.binab.se
- Bio-Bee Sde Eliyahu-BCI**, Kibbutz Sde Eliyahu, D.N. Beit Shean 10810, ISRAEL; +972-4-6096905, Fax +972-4-6096908; www.biobee.com
- Biobest Canada**, 2020 Fox Run Rd., Leamington, Ontario, CANADA N8H 3V7; 519/322-2178, Fax 519/322-1271; info@biobest.ca; www.biobest.ca
- Biobest N.V.**, Ilse Velden, 18, 2260 Westerlo, BELGIUM; 32-14-257980, Fax 32-14-257982; www.biobest.be
- Biobest USA East**, 28795 Goddard Rd. #200, Romulus, MI 48174; 519/322-2178, Fax 519/322-1271, www.biobest-usa.com
- Biobest USA West**, PO Box 506, 30787 Perkins Ave, McFarland, CA 93250; 661/792-6810, Fax 661/792-6880; www.biobest-usa.com
- BioCare Specialty Products (IPM BioCare)**, 1317 H Scott Street, Petaluma, CA 94954; 800/799-2273, 707/762-2601; Fax 707/762-2601; www.ipm-biocare.com
- Biofac Crop Care, Inc.**, PO Box 87, Mathis, TX 78368; 800/233-4914, 361/547-3259, Fax 361/547-9660; www.biofac.com
- Bio-Integral Resource Center**, PO Box 7414, Berkeley, CA 94707; 510/524-2567, Fax 510/524-1758; birc@igc.org; www.birc.org
- BioLogic**, PO Box 177, Willow Hill, PA 17271; 717/349-2789, Fax 801/912-7137; www.biologicco.com
- Biological Control Insectaries**, Kibbutz Sde Eliyahu, D.N. Bet-Shean, ISRAEL 10810; 972-6-580903-5, Fax 972-6-580908
- Biological Control of Weeds Inc.**, 1418 Maple Dr., Bozeman, MT 59715; 800/334-9363, 406/586-5111, www.bio-control.com
- Biological Crop Protection, Ltd.**, Occupation Rd., Wye, Nr. Ashford Kent TN25 5EN, UNITED KINGDOM; +44(0)1233 81 3240, Fax +44(0)1233 81 3383; www.biological-crop-protection.co.uk
- BioNET-International**, Bakeham Lane, Egham, Surrey TW20 9TY, UNITED KINGDOM; 01784-470111, Fax 01491 829100; www.bionet-intl.org
- BioOrganics Inc.**, 2799 Creamery Rd., New Hope, PA 18938; 888/332-7676, Fax 888/332-7676; www.bio-organics.com
- BioPlanet**, Via Masiera I, 1195, 47020 Cesena (FC), ITALY; 39-0547-632212, Fax 39-0547-632244; www.bioplanet.it
- Bio Pre**, Geerweg 65, 2461 TT Langeraar, THE NETHERLANDS; 31-172-539333, Fax 31-172-537859; www.biopre.nl
- BioQuip Products**, 2321 Gladwick Street, Rancho Dominguez, CA 90220; 310/667-8800, Fax 310/667-8808; www.bioquip.com
- Biosafe Systems**, 22 Meadow St., East Hartford, CT 06108; 888/273-3088, 860/290-8890, Fax 860/290-8802; www.biosafesystems.com
- Bioscientific, Inc.**, 4405 S. Litchfield Rd., Avondale, AZ 85323; 800/872-2461, 623/932-4588, Fax 623/925-0506; www.biosci.com
- Biosensory Inc.**, Belding Mill Complex, 107 Providence St., Putnam, CT 06260; 860/928-1113, Fax 860/928-2720; www.biosensory.com
- Biotactics, Inc.**, 25139 Briggs Road, Romoland, CA 92585; 951/943-2819, Fax 951/928-2041; www.benemite.com
- Biowise**, Hoyle Depot, Graffham, Petworth, West Sussex, GU28 0LR, UNITED KINGDOM; 01798-867574, Fax 01798-867574; www.biowise-biocontrol.co.uk
- BioWorks Inc.**, 100 Rawson Road, Suite 205, Victor, NY 14564; 800/877-9443, 585/924-4362, Fax 800/903-2377; www.bioworksinc.com
- Bird Busters**, 707 South Gulf Stream Ave., Sarasota, FL 34236; 866/915-8225, 703/299-8855, Fax 941/952-9766; www.birdbusters.com
- Birdbarrier America (main office)**, 20925 Chico St., Carson, CA 90746; 800/503-5444, 310/527-8000, Fax 310/527-8005; www.birdbarrier.com
- Bird-X Inc.**, 300 N. Oakley Blvd., Chicago, IL 60612; 800/735-0496, 312/226-2473, Fax 312/226-2480; www.bird-x.com
- Birkett Mills**, PO Box 440, Penn Yan, NY 14527; 315/536-3311, Fax 315/536-6740; www.thebirkettmills.com
- Blue Diamond Manufacturing Co.**, PO Box 207, Mooresburg, TN 37811; 800/237-5705, 423/921-9994, Fax 423/921-9488; http://reallyworkspescontrol.com
- Blue Seal Feeds**, PO Box 8000, Londonderry, NH 03053; 800/367-2730, 603/437-3400, Fax 603/437-3403, West Coast: 707/291-6788; www.blueseal.com
- Bonide Products**, 6301 Sutcliffe Rd., Oriskany, NY 13424; 315/736-8231, Fax 315/736-7582; www.bonide.com
- Borregaard Bioplant**, Helsing Forsgade 27 B, DK-8200 Aarhus N, DENMARK; +45/86 78 69 88, Fax +45/86 78 69 22; www.bioplant.dk
- Bradfield Industries**, 610A E. Battlefield #203, Springfield, MO 65807; 417/882-1442, Fax 775/310-6654; www.bradfieldind.com
- Bramton Co.**, PO Box 655450, Dallas, TX 75265; 800/272-6336, Fax 972/438-0959; www.bramton.com
- Brandt Consolidated**, 2935 South Koke Mill Rd., Springfield, IL 62711; 800/442-9821, 217/547-5800, Fax 217/547-5841; www.brandt.co
- Budai Cs**, PO Box 99, 6801, Hodmesvasarhely, HUNGARY
- Bug Factory (see The Bug Factory)**
- Bugs for Bugs (Int.)**, 28 Bowen St., Mundubbera 4626, AUSTRALIA; 61-7-4165-4663, Fax 61-7-4165-4626; www.bugsforbugs.com.au
- Bush Hog**, PO Box 1039, Selma, AL 36702-1039; 800/363-6096, 334/874-2700, Fax 334/874-2701; www.bushhog.com
- BWS Distributors Inc.**, 1847 Piner Rd., Santa Rosa, CA 95403; 800/862-4685, 707/546-2484, Fax 707/546-4804; www.biosafety.biz
- C**
- CABI Bioscience (Entomology, Biological Control, Mycology, Parasitology) UK Centre**, Silwood Park, Ascot, Berkshire SL5 7TA, UNITED KINGDOM; +44 (0)(1491) 829129, Fax +44 (0)(1491) 829123; www.cabi.org
- Cabot Corp.**, 700 E. US Highway 36, Tuscola, IL 61953-9643; 800/222-6745, 217/253-3370; www.cabot-corp.com
- California BioWorks**, 33016 Road 204, Woodlake, CA 93286; 559/564-8182, Fax 559/564-8182
- California Native Plant Society**, 2707 K St., Suite 1, Sacramento, CA 95816; 916/447-2677; www.cnps.org
- California Vermiculture**, PO Box 95, Cardiff by the Sea, CA 92007; 760/689-2079; www.wormgold.com
- Calmax**, 1001 I Street, Sacramento, CA 95812; 877/5209703, 916/341-6199, Fax 916/319-7598; www.calrecycle.ca.gov/calmax
- CALTEC Agri Marketing Services**, 1420 F St., Modesto, CA 95354; 800/491-2987, 209/575-1295, Fax 209/575-0366; www.caltecag.com
- Celite Corp.**, 137 W. Central Avenue, Lompoc, CA 93434; 800/527-7315, 805/735-7791, Fax 805/737-2402; www.worldminerals.com
- Central Coast Insectary**, 391 Hames Rd., Watsonville, CA 95076-0234; 831/726-1853, Fax 831/726-3090
- Certis**, 9145 Guilford Rd. Suite 175, Columbia, MD 21046; 800/847-5620, 301/604-7340, Fax 301/604-7015; www.certisusa.com
- Charley's Greenhouse Supply**, 17979 State Route 536, Mt. Vernon, WA 98273; 800/322-4707, 360/428-2626, Fax 800/233-3078; www.charleysgreenhouse.com
- CIE La Croix**, Rue du Pont, 21 Plougastel, Daoulas, FRANCE 29213; 98-403030, Fax 98-042437; www.lacroix-cie.fr
- Clarke Mosquito Control Products, Inc.**, 110 E. Irving Park Rd. 4th Fl, Roselle, IL 60172; 800/323-5727, 630/894-2000, Fax 630/894-1774; www.clarke.com
- Cleary Chemical**, 178 Ridge Road, Dayton, NJ 08810; 800/524-1662, 732/329-8399, Fax 732/274-0894; www.clearychemical.com
- Clima Kontroll KB**, Asvågen 95, SF-64220 Yttermark, FINLAND; +358/61 22 56 401, Fax +358/61 22 56 402; www.climakontroll.fi
- Cochranes of Oxford Ltd.**, Leafield Witney, Oxfordshire, UNITED KINGDOM OX29 9NY; +44 1993 878641, Fax +44 1993 878416; www.cochranes.co.uk
- CO. DEA**, CREAT del Chambre d'Agriculture, Quartier la, Baronne, La Gaude, FRANCE 06610
- Cognis Corp. (see BASF)**, 5051 Estecreek Drive, Cincinnati, OH 45232; 888/329-2626, 513/482-3000, Fax 513/482-5503; www.basf.com
- Conrad Appel**, Bismarckstr. 5g, 6100 Darmstadt, GERMANY; 06151-852200
- Contech Enterprises**, 7572 Progress Way, Delta, BC, CANADA V4G 1E4; 604/940-9944, Fax 604/940-9433; www.contech-inc.com
- Cooperative Extension Service (see phone book for local offices)**
- Copper Brite Inc.**, PO Box 50610, Santa Barbara, CA 93150-0610; 805/565-1566, Fax 805/565-1394; www.copperbrite.com
- Cornflower Farms**, PO Box 896, Elk Grove, CA 95759; 916/689-1015, Fax 916/689-1968;

www.cornflowerfarms.com
Critter Control, 9435 Cherry Bend Rd., Traverse City, MI 49684; 800/274-8837, 231/947-2400, Fax 231/947-9440; www.crittercontrol.com
Crop Production Services, 7815 N Palm Ave., Ste 410, Fresno, CA 93711; 800/829-7671; 559/436-2940, Fax 559/436-2949; www.cpsagu.com
Cutting Edge, 3057 Summer Oak Place, Buford, GA 30518; 678/546-5009, Fax 678/482-0510; www.naturesavenger.com

D

Dadant & Sons, 51 S. 2nd St., Hamilton, IL 62341-1399; 888/922-1293, 217/847-3324, Fax 217/847-3660; www.dadant.com
Dea-Chi Ind. Co., 3rd Floor, Sung-Kwang B/D, 456-13, Sung-Nae-Dong, Kang-Dong-Ku, Seoul KOREA; +82 24866316, Fax +82 24866318
De Groene Vlieg, Duivenwaardsedijk 1, 3244 LG Nieuwe Tonge, THE NETHERLANDS; 0187-651862, Fax 0187-652445; www.degroenevlieg.nl
Degussa Corp. (Evonik Degussa), 299 Jefferson Rd. Parsippany, NY 07054; 973/929-8000; https://www.aerosil.com
Delmhorst Instrument Co., 51 Indian Ln. E., Towaco, NJ 07082-1025; 877/335-6467, 973/334-2557, Fax 973/334-2657; www.delmhorst.com
Dey Laboratories, 2751 Napa Valley Dr., Napa, CA 94558; 800/755-5560, 707/224-3285; www.dey.com
Diacore, PO Box 1110, Katy, TX 77492; 800/915-5996
Dow AgroSciences, 9330 Zionsville Road, Indianapolis, IN 46268-1054; 800/255-3726; 800/745-7476, 317/337-3000, Fax 800/905-7326; www.dowagro.com

Drs. Foster and Smith, Inc., 2253 Air Park Rd., PO Box 100, Rhinelander, WI 54501; 800/381-7179; www.drsofstersmith.com
Duclos Agro-Biotech S.A., B.P. 3, 13240 Septemes les Vallons, FRANCE; 91-963000, Fax 91-962527
Dunegan Engineering Consultants, PO Box 61808, Midland, TX 79711; 432/561-5901, Fax 432/563-0178; www.deci.com
Dunhill Chemical (see MGK)
Dupont Professional Products, CRP Bldg. 705, Contra Rd., Wilmington, DE 19805; 888/638-7668, www.proproducts.dupont.com
D-VAC Company (see Rincon Vitova), PO Box 2506, Ventura, CA 93002; 805/643-5407, Fax 805/643-6267

E

Eagle Picher Minerals, Inc., 9785 Gateway Dr., Reno, NV 89511; 800/366-7607, 775/824-7600, Fax 775/824-7601; www.epminerals.com
Earthfort, 635 SW Western Blvd., Corvallis, OR 97333, 541/257-2612; www.earthfort.com
Earthgro/Scotts, PO Box 143, Rte 207, Lebanon, CT 06249; 800/874-7336, 860/642-7591; www.scotts.com
Easy Gardener, PO Box 21025, Waco, TX 76702-1025; 800/327-9462, 254/753-5353, Fax 254/753-5372; www.easycgardener.com
EcoHealth, Inc., 56 Haws St., Brookline, MA 02446; 800/234-8425, 617/742-2400, Fax 617/849-5494; www.ticktubes.com
Ecological Laboratories, 13 Hendrickson Avenue, Lynbrook, NY 11563; 800/645-2976, 516/823-3441, Fax 516/379-3632; www.microbelift.com
Ecology Works (see The Ecology Works)
EcoSmart Technologies, 20 Mansell Court E, Ste 375, Roswell, GA 30076; 877/723-3545,

Fax 615/261-7301; www.ecosmart.com
EcoSolutions, 2948 Landmark Way, Palm Harbor, FL 34684; 727/787-3669, Fax 727/455-1674; www.ecosolutionsbeneficials.com
Ecoval, 293 Church Street, Oakville, ON, Canada L6J 1N9; 866/298-2229, Fax 866/239-8342; www.ecoval.ca
Electrostatic Spraying Systems, Inc., 62 Morrison St., Watkinsville, GA 30677; 800/213-0518, 706/769-0025, Fax 706/769-8072; www.maxcharge.com
Enforcer Products (Zep Inc.), 1310 Seaboard Ind. Blvd., Atlanta, GA 30318; 888/805-4357, 770/386-0801, Fax 770/386-1659; www.enforcer.com
Ensure-A-Seal, 7011 Fair Oaks Drive, Export, PA 15632; 800/864-4174, Fax 724/327-8046; www.ensure-a-seal.com
Ensystex, 2709 Breezewood Avenue; PO Box 2587, Fayetteville, NC 28302; 888/398-3772, Fax 888/368-4749; www.ensystex.com
Envirodyne, PO Box 451, Manistee, MI 49660; 800/968-9453, Fax 231/723-2514; www.greenscreen1.com
Enviro-Reps Intl., 1656 Walter St. Unit E, Ventura, CA 93003; 877/999-9374, 805/644-3527, Fax 805/644-3766; www.enviro-reps.com
EnviroSafe, 120 Albert St., Westpac Trust Tower, 7th Floor, Auckland, New Zealand; 64 9416 1544; www.megacatch.com
ETEX Ltd., PO Box M, Mojave, CA 93502; 800/543-5651, 661/824-2275, Fax 661/824-2218; www.etex-Ltd.com
Eurotrac Ltd., 56/5 Horton Place, Colombo 7, SRI LANKA; +941 698245, Fax +941 684345; www.eurotrac.nl
Evergreen Growers Supply, 17592 S. Palmer

Box B. Biobest Distributors

Agralan, The Old Brickyard, Ashton Keynes Swindon, Wiltshire, SN6 6QR UK; +44 1285 860015, Fax +44 1285 860056, www.agralan.co.uk
Agricola Biologica, Via Guglielmo Nicastro 22 97100 Ragusa Sicilia, ITALY; Fax +39 093 26 42 768, email marceficchia@alice.it
AGRObee, Via Mazzini 22 I-09012 Capoterra Sardinia, ITALY; Fax +39 070 72 03 98, www.giancarminecasu.it
Agro Connexion, Connexion Ltda. Cuarto Centenario 201 Las Condes Santiago, CHILE; +56 2 202 59 44, Fax +56 2 202 59 43, www.connexion.cl
Agrotech, Sendnergasse 127 1110 Wien, AUSTRIA; 0043 1 767 58 70, Fax 0043 1 767 58 71
Al-Awfiya P.O. Box 420148 Amman 11142, JORDAN; +962 6 41 26 041, Fax +962 6 41 26 041, email alawfiyaagri@yahoo.com
Andermatt, Stahlmatten 6 6146 Grossdietwil, SWITZERLAND; +41 62 917 50 00 Fax +41 62 917 50 06, www.biocontrol.ch
Arend-Soef BV, Stationsweg 23 2675 ZG Honselersdijk, NETHERLANDS; +31 174 63 02 14 Fax +31 174 62 26 56, www.arendsoef.nl
Arpad, Apponyi tér 12, Pf. 22 6600 Szentes, HUNGARY; +36 63 56 14 76, Fax +36 63 56 14 60, www.arpad-biocontrol.hu
Biobasiq Sverige AB, Braxengränd 3 312 33 Laholm, SWEDEN; +46 (430) 71165 Fax: +46 (430) 71165, www.biobasiq.se

Biobest Belgium N.V. (Professioneel) Ilse Velden 18, 2260 Westerlo, BELGIUM; +32 14 25 79 80, Fax +32 14 25 79 82, email info@biobest.be
Biobest Canada Ltd., 2020 Fox Run Road, RR 4 Leamington Ontario N8H 3V7 CANADA; +1 519 322 21 78, Fax +1 519 322 12 71, email info@biobest.ca
Biobest France, 294 rue Roussanne 84100 FRANCE; +33 (0)4.32.81.03.96, Fax +33 (0)4.32.81.03.98, www.biobest.fr
Biobest Spain, Bulevar Ciudad de V'car, 821 04738 V'car (Almer'a), SPAIN; +34 950 557 333, Fax +34 950 557 334, www.biobest.es
Biofa AG, Bio-Farming-Systems Rudolf-Diesel-Str. 2 72525 Mynsingen, GERMANY; +49 (7381) 935420, Fax +49 (7381) 935454, www.biofa-profi.com
Biopartner, Ul. Kminkowa 31 62-064 Plewiska, POLAND; +48 61 899 83 78, Fax +48 61 899 83 77, www.biopartner.com.pl
Borregaard BioPlant ApS, Helsingforsgade 27B 8200 Aarhus N DENMARK; +45 86 78 69 88, Fax +45 86 78 69 20, www.bioplant.dk
Clima Kontroll Kb, Asvagen 95 64220 Yttermark FINLAND; +358 6 225 64 01, +358 6 225 64 91, Fax +358 6 225 64 02, email stefan.pellfolk.clima@pp.qnet.fi
Debbane Frères Sal, P.O. Box 11 9666 Beirut, LEBANON; +961 9 21 18 00/01/02, Fax +961 9 21

17 91, email aammar@debbane.com
Distribuciones Imex., Calle Josefa Ort'z de Dom'nguez N 24, 45235 Zapopan, Jalisco, MEXICO; +52 33 32 83 46 39, Fax +52 33 36 84 84 29, email hbernandez@imex.mx, www.distribucionesimex.com
H & P Welte, Maurershorn 18 B 78479 Insel Reinchenau, DENMARK; +49 75 34 71 90, Fax: +49 75 34 14 58, www.welte-nuetzlinge.de
Horticulture, 10 Fifth Street Drury South Auckland, NEW ZEALAND; +64 (9) 29 48 453, Fax +64 (9) 29 47 278, www.horticulture.co.nz
Hydrogrow Hellas Ltd., 9 Aristofanos str. Ag. Dimitrios 17236 Athens, GREECE; +30 210 97 18 978, Fax +30 210 97 69 327, email info@hydrogrow.org
International Technology, Wayzata, MN 55391; +1 877 505 9703, +1 303 661 9546 Fax +1 303 552 5747, www.beesandbugs.com
Katz Biotech AG, Industriestrasse 38, D-73642 Welzheim, GERMANY; +49 71 82 93 53 73, Fax +49 71 82 93 53 71, www.katzbiotech.de
Norgro A/S, Postboks 4144 2307 Hamar, NORWAY; +47 62 54 15 80 Fax +47 62 54 15 55, www.norgro.no
P. Biocontrol, Celakovského 389/III 38901 Vodňany CHECKOSLOVAKIA; +420 383 38 27 57 Fax +420 383 38 27 57, email pliva.biocontrol@tiscali.cz
Tokai Trading Co. Ltd., 2997 Takatsuno-cho Yokkaichi-city, Mie-pref. JAPAN; +81 59 32 63 931, Fax +81 59 32 66 758, www.tokaibussan.com

Road, Oregon City, OR 97045; 503/908-1946, Fax 503/631-7954; www.evergreen-growers.com

F

FAR (see Foothill Agricultural Research)

Farsemente, Paco branco-Conceicao de Faro, Contribuinte n° 501 832 459, P-8000 Faro, PORTUGAL; +351 89816953, Fax +351 89832007; www.farsemente.com

Fertrell Inc., PO Box 265, Bainbridge, PA 17502; 717/367-1566, Fax 717/367-9319; www.fertrell.com

Fiberweb, 70 Old Hickory Blvd., PO Box 511, Old Hickory, TN 37138-3651; 800/321-6271, 615/847-7000, Fax 615/847-7068; www.fiberweb.com

First Choice Manufacturing Ltd., 19402 56th Ave., Surrey, BC, CANADA V3S 6K4; 800/663-3162, 604/534-8626, Fax 604/534-8626; www.mansonvilleplastics.com

Flame Engineering Inc., PO Box 577, LaCrosse, KS 67548-0577; 888/388-6724, 785/222-2873, Fax 785/222-3619; www.flameengineering.com

Flame Weeders, 1711 Mud Lick Road, Glenville, WV 26351; 304/462-7606, Fax 304/462-8805; www.flame-weeders.com

FleaBusters/Rx for Fleas, 6555 Northwest 9th Ave., Ste. 412, Fort Lauderdale, FL 33309; 800/666-3532, 954/351-9244, Fax 954/351-9266; www.fleabuster.com

Flora Nutzlinge, Wulkowes Weg (Gartnerei), 15518 Hanglesberg, GERMANY; 033632/59363, Fax 033632/59364; www.katzbiotech.com

Florida Canine Academy, 19 Marshall St., Safety Harbor, FL 34695, 800/665-3364; www.termedogs.com; www.bedbugdog.com

Florikan, 1579 Barber Road, Sarasota, FL 34240; 800/322-8666, 941/379-4048, Fax 941/377-3633; www.florikan.com

Flowtron Outdoor Products, 15 Highland Avenue, Malden, MA 02148; 781/321-2300, Fax 781/324-8203; www.flowtron.com

Floyd Rogers, 22W 213 Glen Valley Dr., Glen Ellyn, IL 60137; 630/858-3538

FMC Corporation (wholesale), 1735 Market St., Philadelphia, PA 19103; 215/299-6000; www.fmc.com

Foothill Agricultural Research (FAR), 550 Foothill Parkway, Corona, CA 92882; 888/760-0120, 951/371-0120, Fax 951/279-5150; www.far-inc.com

Forestry Suppliers Inc., 205 W. Rankin St., Jackson, MS 39201; 800/647-5368, 601/354-3565, Fax 800/543-4203; www.forestry-suppliers.com

Forevergreen Landscaping, 19974 12th Avenue, Langley, BC, CANADA V2Z 1W3; 604/534-9326, Fax 604/530-7129; www.ecoweeder.com

G

Gallagher North America, PO Box 681409, Riverside, MO 64150; 800/531-5908; www.gallagherusa.com

Gardener's Supply Co., 128 Intervale Road, Burlington, VT 05401; 888/833-1412, 800/955-3370, Fax 800/551-6712; www.gardeners.com

Gardens Alive, 5100 Schenley Place, Lawrenceburg, IN 47026; 513/354-1482, Fax 812/537-8660; www.gardensalive.com

Gardner Manufacturing, 1201 West Lake St., Horicon, WI 53032; 888/558-1990, 920/485-4303, Fax 920/485-4370; www.gardnermfg.com

Garlic Research Labs Inc., 624 Ruberta Avenue, Glendale, CA 91201; 800/424-7990, 818/247-9600, Fax 818/247-9828; www.garlicbarrier.com

Garon Products Inc., PO Box 1924, Wall, NJ 07719-1924; 800/631-5380, 732/223-2500, Fax 732/223-2002; www.garonproducts.com

Garta, Torveporten 10, DK-2500 Valby, DENMARK; +45 70 33 03 00, Fax +45 36 46 06 37; www.garta.dk

Gartnerei Hatto Welte, Maurershorn 10, 7752 Insel Reichenau, Bodensee, GERMANY; 07534-7190, Fax 07534-1458; www.welte-nutzlinge.de

Gempler's Inc., PO Box 44993, Madison, WI 53744; 800/382-8473, 608/662-3301, Fax 608/662-3360; Fax 800/551-1128; www.gemplers.com

Gilbert Industries, Inc., 5611 Krueger Dr., Jonesboro, AR 72401; 800/643-0400, 870/932-6070, Fax 870/932-5609; www.gilbertinc.com

Gloves in a Bottle, PO Box 615, Montrose, CA 91021; 800/600-1881, 818/248-9980, Fax 818/248-8991; www.glovesinabottle.com

Gowan Company, PO Box 5569, Yuma, AZ 85366; 800/883-1844, 928/783-8844, Fax 928/343-9255; www.gowanco.com

Grain Processing Corporation, 1600 Oregon St., Muscatine, IA 52761; 563/264-4265, Fax 563/264-4289; www.grainprocessing.com

Great Lakes IPM, 10220 Church Rd. NE, Vestaburg, MI 48891; 800/235-0285, 989/268-5693, Fax 989/268-5311; www.greatlakesipm.com

Green Light Company (see Scotts)

Greenmethods, 9664 Tanqueray Ct., Redding, CA 96003; 800/477-3715, 530/226-6300, Fax 530/226-6310; www.greenmethods.com

Green Pro Services, 380 S. Franklin St., Hempstead, NY 11550; 800/645-6464, 516/538-6444, Fax 516/538-2042; www.greenproservices.com

Green Spot Ltd (see Greenmethods)

Green-Tek, Inc., 3708 Enterprise Dr., Janesville, WI 53546; 800/747-6440, 608/754-7336, Fax 608/754-7334; www.green-tek.com

Growing Solutions, 1702 West Second Avenue, Ste. B, Eugene, OR 97402; 888/600-9558, 541/343-8727, Fax 541/338-7809; www.growingsolutions.com

Growth Products, 80 Lafayette Ave, White Plains, NY 10603; 800/648-7626, 914/428-1316, Fax 914/428-2780; www.growthproducts.com

H

Happy Jack Co., PO Box 475, Snow Hill, NC 28580; 800/326-jack, 252/747-2911, Fax 252/747-4111; www.happyjackinc.com

Harantonis, 58500 Skydra, Pellis, GREECE; +30 38183110, Fax +30 38183111; www.charantonis.gr

Harmony Farm Supply, 3244 Gravenstein Hwy, Sebastopol, CA 95472; 707/823-9125, Fax 707/823-1734; www.harmonyfarm.com

Health Enterprises Inc., 90 George Levin Dr., N. Attleboro, MA 02760; 800/633-4243, Fax 508/695-3061; www.healthenterprises.com

Hedley Technologies Inc., 520-170 Attwell Drive, Toronto, ON, CANADA M9W 5Z5; 888/476-4473, 905/206-0013, Fax 905/206-1413; www.hedleytech.com

Heirloom Roses, 24062 Riverside Dr. NE, St. Paul, OR 97137; 800/820-0465, 503/538-1576, Fax 503/538-5902; www.heirloomroses.com

Heitman Labs, 2512 Summit, Suite 307, Plano, TX 75074; 800/451-6539, 972/509-2400, Fax 972/509-2401; www.antcharmer.com

Hercon Environmental Products, PO Box 435, Aberdeen Rd., Emigsville, PA 17318; 800/864-4838, 717/764-5211, Fax 717/767-1016; www.herconenviron.com

Heritage Rosarium, 211 Haviland Mill Rd., Brookville, MD 20833; 301/774-2806

Heritage Rose Gardens, 16831 Mitchell Creek Dr., Fort Bragg, CA 95437; 707/964-3478

Hockney Underwater Weed Cutter Co., PO Box 414, Delavan, WI 53115; 262/215-6037; Fax 262/740-7565; www.weedcutter.com

Hogil Pharmaceutical, PO Box 1682, White Plains, NY 10602; 800/662-1764; 914/681-1800

Holderread's Waterfowl Farm & Preservation Center, PO Box 492, Corvallis, OR 97339; 541/929-5338; www.holderreadfarm.com

Homax Products, PO Box 5643, Bellingham, WA 98227; 800/729-9029, 360/733-9029, Fax 360/647-1071; www.homaxgroup.com

HOMS, PO Box 1887, Pittsboro, NC 27312; 888/270-5721; 800/805-2483; www.homs.com

Hortico Inc., 422 Concession 5 East., Waterdown, ON, CANADA L0R 2H1; 905/689-6984, Fax 905/689-6566; www.hortico.com

Hortimic OY (Ltd.), Apilakatu 8, Turku 20740, FINLAND; +358/21 254 2211, Fax +358/21 254 2582

Hot Foot America, 1961 Stearman, Hayward, CA 94545; 800/533-8421, 415/789-5135, Fax 415/789-0564; www.hotfoot.com

Hound Dog Products (Ames True Temper), 465 Railroad Avenue, Camp Hill, PA 17011; 800/393-1846, Fax 800/567-1904; www.hound-dog.com; www.amestruetemper.com

Hydro-Gardens, Inc., PO Box 25845, Colorado Springs, CO 80936; 888/693-0578, 719/495-2266, Fax 719/495-2266; www.hydro-gardens.com

Hydros Inc., 114 Waterhouse Rd., Suite C, Bourne, MA 02532; 888/285-9654, 508/759-5994, Fax 508/759-1884; <http://hydros.cc>

Hygienitech Inc., 3849 Acline Rd., 108, Bldg 3, Punta Gorda, FL 33959; 888/999-9030, 561/381-4202, Fax 941/347-7193; www.hygienitech.com

I

Idexx Inc., Idexx Drive, Westbrook, ME 04092; 800/548-6733, 207/556-0300, Fax 207/556-4346; www.idexx.com

Industrial Netting, 7681 Setzler Pky, Minneapolis, MN 55445; 800/328-8456, 763/496-6355, Fax 763/493-6356; www.industrialnetting.com

Innolytics, PO Box 675935, Rancho Santa Fe, CA 92067; 858/759-8012, Fax 858/923-2060; www.ovocontrol.com

Innovative Pest Products, PO Box 880216, Boca Raton, FL 33488; 877/483-4997; 561/483-4997, Fax 561/488-0443; www.antcafe.com

Insects Limited, 16950 Westfield Park Drive, Westfield, IN 46074-9374; 800/992-1991; 317/896-9300, Fax 317/867-5757; www.insectslimited.com

Insight Pharmaceuticals, 1170 Wheeler Way #150, Langhorne, PA 19047, 800/344-7249; www.prontoplus.com

International Chitin Production, 8596 Fraser Street, Vancouver, BC, Canada V5X 3Y3; 604/301-3119, Fax 604/301-3129; www.intlchitin.com

International Technology Services, 1161 Wayzata Blvd. E. #209, Wayzata, MN 55391; 877/505-9703; 303/661-9546, Fax 303/552-5747; www.intertechserv.com

Invitrogen (Life Technologies), 3175 Staley Rd., Grand Island, NY 14072; 800/955-6288, Fax 800/331-2286; www.invitrogen.com

IPM Laboratories Inc., PO Box 300, Locke, NY 13092-0300; 315/497-2063, Fax 315/497-3129; www.ipmlabs.com

Isagro USA, 430 Davis Dr., Ste 240, Morrisville, NC 27560; 919/321-5200, Fax 919/321-5220; www.isagro-usa.com

Isca Technologies Inc., 1230 Spring St., Riverside, CA 92507; 951/686-5008, Fax 815/346-1722; www.iscatech.com

J

Jack and the Beanstalk, Kou 2779-71 Moriya, Moriya-Machi Kitsoma-Gun, Ibaragi 302-01, JAPAN; 0297-45-2838, Fax 0297-45-2838

Jackson and Perkins, 2 Floral Ave., Hodges, SC 29653; 800/292-4769; www.jacksonand-perkins.com

Jet Harvest, PO Box 915139, Longwood, FL 32791; 877/866-5773, 407/523-7842; www.jetharvest.com

JH Biotech Inc., 4951 Olivas Park Drive, Ventura, CA 93003; 800/428-3493; 805/650-8933; Fax 805/650-8942; www.jhbiotech.com

J.L. Hudson, PO Box 337, La Honda, CA 94020-0337; www.jlhudsonseeds.net

J.M. Malone & Son Enterprises, PO Box 158, Lonoke, AR 72086; 501/676-0207, Fax 501/676-2910; www.jmmaloneandson.com

Johnny's Selected Seeds, PO Box 299, Waterville, ME 04903; 877/564-6697, 207/861-3901, Fax 800/738-6314; 207/437-2165; www.johnnyseeds.com

J. Reilly, 5000 Trenton St., Metairie, LA 70006; 504/887-3666

JT Eaton & Company, Inc., 1393 E. Highland

Rd., Twinsburg, OH 44087; 800/321-3421, 330/425-7801, Fax 330/425-8353; www.jteaton.com

K

Katz Biotech Services, Industriestrasse 38, Weltzheim 73642, Germany; 07182/935373, Fax 07182/935371; www.katzbiotech.de

Kemira Oy/Kemira Biotech, Porkkalankatu 3, PO Box 330, 00101 Helsinki, FINLAND; 011-358-10-8611511, Fax 011-358-10-862-1384; www.kemira.com

Kennco Manufacturing, 1105 3rd St. NE, PO Box 1149, Ruskin, FL 33570; 800/645-2531; 813/645-2591; www.kenncomfg.com

Keo Fish Farms, Inc., PO Box 166, Keo, AR 72083; 501/842-2872, Fax 501/842-2156

KHH Biosci. Inc., 634 Lake Hogan Lane, Chapel Hill, NC 27515; 919/929-2935

KM Ant Pro, PO Box 967, Nokomis, FL 34275; 941/445-4252; www.kmantpro.com

Koppert B.V., Veilingweg 17 PO Box 155, 2650 AD Berkel en Rodenrijs, THE NETHERLANDS; 010-514 04 44, Fax 010-511 52 03; www.koppert.com

Koppert Canada Ltd., 50 Ironside Crescent, Unit 2, Scarborough, Ont., CANADA M1X 1G4; 416/291-0040, Fax 416/291-0902; www.koppertonline.com

Koppert United Kingdom, Homefield Road, Haverhill, Suffolk CB9 8QP, United Kingdom; 44 1440704488, Fax 44 1440704487; www.koppert.com

Koppert USA, 1502 Old US Hwy 23, Howell, MI 48843; 800/928-8827, 734/641-3763,

Fax 734/641-3793; www.koppertonline.com

Kuida Ag Supply Co., PO Box 2598, Salinas, CA 93902; 831/758-9914, Fax 831/758-9933; www.kuidaag.com

Kunafin Trichogramma Insectaries, PO Box 190, Quemado, TX 78877; 800/832-1113, 830/757-1181, Fax 830/757-1468; www.kunafin.com

KWS, Postfach 146, 37555 Einbeck, GERMANY; 05561-311531, Fax 05561-311544; www.kws.com

L

Lab Safety Supply, PO Box 1368, Janesville, WI 53547-1368; 800/356-0783, 800/356-2501, Fax 800/543-9910; www.laboratoryequipment.com

Ladd Research Industries Inc., 83 Holly Court, Williston, VT 05495; 800/451-3406, 802/658-4961, Fax 802/660-8859; www.laddresearch.com

Ladybug Company (see The Ladybug Company)

Ladybug Farms, PO Box 186, North Highlands, CA 95660; 916/348-1917, Fax 916/339-1927; www.ladybugfarms.net

Laverlam International (see BioWorks), 117 South Parkmont, PO Box 4109, Butte, MT 59702; 406/782-2386, Fax 406/782-9912; www.laverlamint.com

Lesco (John Deere Landscapes), 1301 East 9th St., Suite 1300, Cleveland, OH 44114; 800/321-5325; www.lescodirect.com

Lipha Tech, 3600 W. Elm St., Milwaukee, WI 53209; 888/331-7900, 414/351-1476, Fax

Box C. Koppert Distributors

Austroaat AG, Postfach 40,1232 Wien, AUSTRIA;+43 16167023, Fax +43 16163965, office@wien@austroaat.at

Arysta LifeScience Corporation, Seiroka Tower 38 F; Seiroka Garden Nai, 8-1 Akashi-Cho, Chuo-Ku, Tokyo 104-6591, JAPAN; +81 3 3547 4415, Fax +81 3 3547 4695, www.agrofrontier.com

Baywa AG, Am Heizwerk 8, 82054 Sauerlach, GERMANY;+49 8104649046, Fax +49 8104649040, www.baywa.de

Borregaard BioPlant, Helsingforsgade 27b, 8200 Århus N, DENMARK; +45 86 78 69 88, Fax +45 86 78 69 22, www.bioplant.dk

Charantonis, Skydra,58500 Pellas, GREECE;+30 2381083110, Fax +30 2381081994, www.charantonis.gr

H. & P. Welte GdBR, Maurershorn 18 B,78479 Insel Reichenau, GERMANY;+49 75347190, Fax +49 75341458, info@welte-nuetzlinge.de

H & T BioProtect, Kiss Jnos 54, 2500 Esztergom, HUNGARY;+36 33413240, Fax +36 33 413 240

Koppert Biological Systems (USA), 1502 Old US-23, Howell, MI 48843; +1 810-632-8750, Fax +1 810-632-8770, www.koppert.com

Koppert Canada, 40 Ironside Crescent, Unit 3, Scarborough, ON, M1X 1G4, CANADA;+1 416 291 0040, Fax +1 416 291 0902, www.koppert.com

Koppert Chile, Calle Hern Niemeyer, 521, LT14 Parque Industrial, Quillota, CHILE; Tel/Fax +56 (9) 661 83 186, www.koppert.cl

Koppert Germany, Industriest Ost 66, 47906 Kempen, GERMANY;+49 (0)2152 9572870/ 9572871, www.koppertbio.de

Koppert France, 147 Avenue des Banquets, 84300 Cavailon, FRANCE;+33 4 90 78 30 13, Fax +33 4 90 78 25 98, www.koppert.fr

Koppert Italia, Via delle Nazioni 7, 37012 Bussolengo (VR), ITALY;+39 456717750, Fax +39 456717748, www.koppert.com

Koppert Korea Co., Ltd., 393-1, Chang-Woo-Dong, Han-Nam-City Kyeonggi-Do, 465-120 South-Korea;+82 317952692, 2693, Fax +82 317952694, www.koppert.com

Koppert B.V. Netherlands, Veilingweg 14, Postbus 155, 2650 AD Berkel en Rodenrijs, NETHERLANDS;+31 10 514 04 44, Fax +31 10 511 52 03, info@koppert.nl

Koppert Spain, C/Cobre 22, 24 Parcela P.14 Nave 3 Pol. Industrial Ciudad del Transporte del Poniente,04745 La Mojenera Almer'a, SPAIN;+34 902 48 99 00, Fax +34 902 43 13 95, www.koppert.com

Koppert UK Ltd, Unit 8, 53 Hollands Road, Haverhill, Suffolk, CB9 8PJ, UK;+44 1440 704488, Fax +44 1440 704487, www.koppert.com

Leu + Gyax AG, Fellstrasse 1,Postfach 30,5413 Birmenstorf AG, SWITZERLAND;+41 562014545, Fax +41 562252515

L.O.G. AS, Broekkveien 104b, 0582 Oslo, NORWAY; +47 815 20 100, Fax +47 815 20 101, www.log.no

Lindesro AB, Reslöv Lindesro, 240 30 Marieholm, SWEDEN;+46 42 161870, www.lindesro.se

Martin Grima Ltd., 'The Knot' Ghajin Astas, SPB 07, MALTA;+356 574474, Fax +356 21583087, grima@maltanet.net

Mertens bv, Handelstraat 6, 5961 PV Horst, NETHERLANDS; +31 77 3999111, Fax +31 77 3999199, www.mertens-agro.nl

Sautter & Stepper GmbH, Rosenstraße 19,72119 Ammerbuch, GERMANY;+49 7032-957830, Fax +49 7032-957850, www.nuetzlinge.de

Schetelig AB Oy, Tiilitie 14, 01720 Vantaa, FINLAND;+358 9852061, Fax +358 985206254, www.schetelig.com

Wilhelm, Neue Heimat 25,74343 Sachsenheim 4, GERMANY;+49 70462386, Fax +49 704612198

Zonda Resources, P.O. Box 756,1800 Pukekohe, South Auckland, NEW ZEALAND; +64 9 2363700, Fax +64 9 2363705, www.koppert.com

- 414/247-8166; www.liphatech.com
- Life Technologies**, 3175 Staley Rd., Grand Island, NY 14072; 800/955-6288, 760/603, 7200, Fax 800/331-2286; www.invitrogen.com
- Live Oak Structural**, 702 Harrison Street, Ste. B, Berkeley, CA 94710; 510/524-7101
- Lockwood Seed**, 504 S. Tehama Avenue, Willows, CA 95988; 530/934-2157, Fax 530/934-9106
- Lok-n-Logs**, PO Box 677, Route 12 South, Sherburne, NY 13460; 800/343-8928; www.loknlogs.com
- Looker, Inc.**, PO Box 29, Milford, IL 60953; 815/889-5555, Fax 815/889-5550; www.lookerinc.com
- Louisiana Pacific (suppressive mix)**, www.lpcorp.com
- Loveland Industries (see Crop Production Services)**; 800/356-8920, www.cpsagu.com
- M**
- Makhteshim-Agan**, PO Box 60 Industrial, 84100 Beer-Sheva, ISRAEL; 212/661-9800; 972-7296611, Fax 972-7-280304/364; www.ma-industries.com
- Manning Agricultural Center**, 712 Front St., Manning, IA 51455; 800/248-4409, Fax 712/655-3411
- Margo Horticultural Supplies, Ltd.**, PO Box 5400, High River, Alberta, CANADA T1V 1M5; 888/652-1199; 403/652-1932, Fax 403/652-3511; www.margosupplies.com
- Marrone Bio Innovations**, 2121 Second St., Suite B-107, Davis, CA 95618; 877/664-4476, 530/750-2800; www.marronebioinnovations.com
- Martin Grima**, Ghajn Astas, St. Paul's Bay, MALTA SPB 07; +356 574474, Fax +356 583087; www.martingrimaltld.com
- Martinson-Nicholls Inc.**, 4910 E 345th St., Willoughby, OH 44094; 800/876-1312, 440/951-1312, Fax 440/951-1315; www.floormat.com
- Masune**, 500 Fillmore Avenue, Tonawanda, NY 14150; 800/831-0894, 716/695-3244, Fax 800/222-1934; www.masune.com
- Merial Ltd.**, 2100 Ronson Rd., Iselin, NJ 08830; 800/660-1842, 888/637-3887; www.merial.com
- MGK Company**, 8810 10th Avenue North, Minneapolis, MN 55427; 800/645-6466, 763/544-0341, Fax 763/544-6437; www.pyganic.com; www.mgk.com
- Microbe Brewer**, 182 Capital Lane, Roseburg, OR 97470
- Microcide Ltd.**, Shepherds Grove, Stanton, Bury St. Edmunds, Suffolk, UK IP31 2AR; 01359 251077, Fax 01359 251545; www.microcide.co.uk
- Mikro-tek Labs**, PO Box 2120, Timmons, Ontario, CANADA P4N 7X8; 705/268-3536, Fax 705/268-7411; mikrotek@onlink.net
- Miller Bee Supply**, 496 Yellow Banks Rd., North Wilkesboro, NC 28659; 888/848-5184; 336/670-2249; Fax 336/670-2293; www.millerbeesupply.com
- Miller Chemical & Fertilizer Corp.**, PO Box 333, Hanover, PA 17331; 800/233-2040, 717/632-8921; 717/632-4581, Fax 717/632-9638; www.millerchemical.com
- MIP Polywest**, PO Box 3156, San Luis Obispo, CA 93403; 805/549-9540, Fax 805/549-0384
- Monterey Ag Resources (see Brandt Consolidated)**, 3654 S Willow Avenue, PO Box 35000, Fresno, CA 93745; 559/499-2100, Fax 559/499-1015; www.monterey-agresources.com
- Morris Farms & Hatcheries, Inc.**, 18370 SW 232nd St., Goulds, FL 33170; 305/248-5589, Fax 305/247-0982; www.morrishatchery.com
- M & R Durango Inc.**, PO Box 886, Bayfield, CO 81122; 800/526-4075, 970/259-3521, Fax 970/259-3857; www.goodbug.com
- Murray McMurray Hatchery**, PO Box 458, 191 Close Drive, Webster City, IA 50595-0458; 800/456-3280, 515/832-3280, Fax 515/832-2213; www.mcmurrayhatchery.com
- Mycorrhizal Applications Inc.**, PO Box 1029, Grants Pass, OR 97528; 866/476-7800, 541/476-3985, Fax 541/476-1581; www.mycorrhizae.com
- N**
- Nabat Agricultural**, PO Box 926160, Amman 11110, JORDAN; +962 5815813, Fax +962 6815813; www.nabat.com
- National Pediculosis Association**, 1005 Boylston St., Ste 343, Newton, MA 02461; 800/323-1305, 617/905-0176, Fax 800/235-1305; www.headlice.org
- National Pest Management Association (NPMA)**, 10460 North St., Fairfax, VA 22031; 800/678-6722, 703/352-6762, Fax 703/352-3031; www.pestworld.org
- Natural Animal Health Products**, 7000 US 1 North, Ste 301, St. Augustine, FL 32095; 800/274-7387, 904/824-5884, Fax 904/824-5100; www.naturalanimal.com
- Natural Colored Wool Growers' Assoc.**, PO Box 406, New Palestine, IN 46163; 317/861-4795; www.ncwga.org
- Natural Enemy Rearing Center**, Guangdong Academy of Agricultural Sciences, Guangzhou, Wushan, P.R. China 510640; 86 020 87597447, Fax 86 020 85268070
- Natural Fertilizer (Sustane)**, 310 Holiday Avenue, PO Box 19, Cannon Falls, MN 55009; 800/352-9245, 507/263-3003, Fax 507/263-3029; www.sustane.com
- Natural Gardening Company (see The Natural Gardening Company)**
- Natural Industries (see Novozymes)**, 1230 Cullen Road, Houston, TX 77066; www.naturalindustries.com
- Natural Insect Control, RR#2**, 3737 Netherby Rd., Stevensville, Ontario, CANADA L0S 1S0; 905/382-2904, Fax 905/382-4418; www.natural-insect-control.com
- Natural Insecto Products, Inc.**, PO Box 12138, Costa Mesa, CA 92627; 800/332-2002, 949/548-4275, Fax 949/548-4576; www.insecto.com
- Natural Organic Products**, 710 South Rossiter St., Mt. Dora, FL 32757; 352/383-8252, Fax 352/383-7307
- Natural Pest Controls**, 8864 Little Creek Dr., Orangevale, CA 95662; 800/873-1252, 916/726-0855, Fax 916/726-0855; www.nat-pestco.com
- Natural Plant Protection**, Route d'Artix B.P. 80, 64150 Nogueres, FRANCE; 33-559-60-92-92, Fax 33-59-84-89-55; www.ecspace.eu
- Nature House (Nature Society)**, PO Box 390, Griggsville, IL 62340; 800/255-2692, 217/833-2406, Fax 217/833-2512; www.naturesociety.org
- Nature's Control**, PO Box 35, Medford, OR 97501; 800/698-6250, 541/245-6033, Fax 541/899-9121; www.naturescontrol.com
- Nature's Way**, 3051 West Maple Loop Drive, #125, Lehi, UT 84043; 800/962-8873, 801/489-1700; www.naturesway.com
- Neogen Corp.**, 620 Leshner Place, Lansing, MI 48912; 800/234-5333, 517/372-9200, Fax 517/372-2006; www.neogen.com
- New BioProducts Inc.**, 6421 NW Oak Creek Dr., Corvallis, OR 97330; 541/752-2045, Fax 541/754-3968; www.newbioproducts.com
- New Era Farm Service**, 2904 E. Oakdale, Tulare, CA 93274; 559/686-3833, Fax 559/686-1453; www.newerafarmservice.com
- Newman Enterprises**, 4552 Poygan Avenue, Omro, WI 54963; 888/685-2244, www.bit-ingflies.com
- Nichols Garden Nursery**, 1190 Old Salem Rd. NE, Albany, OR 97321-4580; 800/422-3985, 541/928-9280, Fax 541/967-8406; www.nicholsgardennursery.com
- Nichols Net & Twine Co.**, 2200 Hwy 111, Granite City, IL 62040; 800/878-6387, 618/797-0211, Fax 618/797-0212; www.nicholsnetandtwine.com
- Nic Sosef BV**, Stationsweg 23, 2675 AM Honselersdijk, THE NETHERLANDS; +31/174 63 02 14, Fax +31/174 64 35 01; www.sosef.nl/en
- NISUS Corp.**, 100 Nisus Drive, Rockford, TN 37853; 800/264-0870, 865/577-6119, Fax 865/577-5825; www.nisuscorp.com
- Nitron Industries Inc.**, PO Box 1447, Fayetteville, AR 72702; 800/835-0123, 479/587-1777, Fax 479/587-0177; www.gardeniq.com
- Nixalite of America**, PO Box 727, 1025 16th Ave., E. Moline, IL 61244; 888/624-1189, 309/755-8771, Fax 309/755-0077; www.nixalite.com
- North Country Organics**, PO Box 372, Bradford, VT 05033; 802/222-4277, Fax 802/222-9661; www.norganics.com
- NovaGuard Technologies**, 17635 Northeast 67th Court, Redmond, WA 98052; 888/822-5039; www.novaguard.com
- Novozymes Biologicals**, 77 Perry Chapel Church Rd., Franklinton, NC 27525; 919/494-3000, Fax 919/494-3450; www.novozymes.com
- NPIRS User Services**, CERIS, 1231 Cumberland Ave., Ste. A, W. Lafayette, IN 47906-1317; 765/494-6561, Fax 765/494-9727; ppis.ceris.purdue.edu
- NRG (Natural Resources Group)**, 15905 Barbara Lane, Magnolia, TX 77375; 800/279-9567, 559/564-1236, Fax 559/564-1238; www.callnrg.com
- Nufarm USA**, 11901 South Austin Ave., Aslip, IL 60803; 800/345-3330, 630/455-2000, Fax 886/241-0612; www.nufarm.com

O

Oakfield Apparatus Inc., 971 S. Main St., Fond du Lac, WI 54935; 920/933-3604, Fax 920/933-3605; www.soilsamplers.com

Oliver Products Co., 445 Sixth St. NW, Grand Rapids, MI 49504; 877/283-3431, 616/456-7711, Fax 616/456-5820; www.oliverproducts.com

Olson Products Inc., PO Box 1043, Medina, OH 44258; 330/723-3210, Fax 330/723-9977; www.olsonproducts.com

O.M. Scott & Sons (The Scotts Company), 14111 Scottslawn Rd., Marysville, OH 43041; 800/221-1760, 937/642-6402, Fax 937/644-5533; www.scotts.com

Omnilytics, 9100 South 500 West, Sandy, UT 84070; 866/285-2644, 801/746-3600, Fax 801/746-3461; www.omnilytics.com

OMRI (Organic Materials Review Inst.), PO Box 11558, Eugene, OR 97440; 541/343-7600, Fax 541/343-8971. www.omri.org

Onset Computer Corporation, 470 MacArthur Blvd., Bourne, MA 02532; 800/564-4377, 508/759-9500, Fax 508/759-9100; www.onsetcomp.com

Orange Guard, 20 Village Square, Suite 7, Carmel Valley, CA 93924; 888/659-3217; Fax 831/659-5128; www.orange-guard.com

Organic Control Inc. (Orcon), 5132 Venice Blvd., Los Angeles, CA 90019; 323/937-7444, Fax 323/937-0123; www.organiccontrol.com

Organic Laboratories, 2963 SE Dominica Terrace, Stuart, FL 34997; 800/537-1770; 772/286-5581, Fax 772/286-8113; www.organiclabs.com

Osmose Corporation, 1016 Everree Inn Rd., Griffin, GA 30224; 800/241-0240, 770/228-8434, Fax 770/229-5225; www.osmose.com

P

Pacific Biocontrol Corp., 14615 NE 13th Court, Suite A, Vancouver, WA 98685-1451; 800/999-8805, 360/571-2247, Fax 360/571-2248; www.pacificbiocontrol.com

Pacific Coast Seed, 533 Hawthorne Place, Livermore, CA 94551; 925/373-4417, Fax 925/373-6855; www.pcseed.com

Paragon Professional Products, 3635 Knight Rd., Suite 7, Memphis, TN 38118; 800/238-9254; www.paragonprofessional.com

Parker Pest Control Inc., 3616 E. Lake Rd., Ponca City, OK 74604; 800/324-2847, 580/762-6614, Fax 580/765-4613; www.parkerpestcontrol.com

Park Seed Co., 3507 Cokesbury Rd., Hodges, SC 29653; 800/845-3369, 864/223-7333; www.parkseed.com

Pasteuria BioScience (see Syngenta), 12085 Research Dr., Alachua, FL 32615; 386/462-0008, Fax 386/462-0875; www.pasteuriabio.com

Paygro Co., 11000 Huntington Rd. #B, S. Charleston, OH 45368; 216/581-0100; Fax 216/581-4712; www.paygro.com

PBI/Gordon Corp., 1217 W12th St, Kansas City, MO 64101; 800/821-7925, 816/421-4070, Fax 816/474-0462; www.pbigordon.com

Peaceful Valley Farm Supply, PO Box 2209, 125 Clydesdale Court, Grass Valley, CA

95945; 888/784-1722, 530/272-4769, Fax 530/272-4794; www.groworganic.com

Pennington Seed, PO Box 290, Madison, GA 30650; 706/342-1234, 706/342-0446; www.penningtonseed.com

Penny Newman Grain Company, 9183 Survey Road, Suite 101, Elk Grove, CA 95624; 916/714-2060; www.penny-newman.com

Perma-Chink Systems, 1605 Prosser Rd., Knoxville, TN 37914; 800/548-3554, 865/524-7343, Fax 425/869-0107; www.permachink.com

Perma-Guard, PO Box 982, Corrales, NM 87048; 505/243-1460, Fax 505/243-8878; www.perma-guard.com

Pest Guard Products, 564 Shore Acres Drive, Mamaronek, NY 10543; 914/698-3333, Fax 914/698-3334; www.pestguardbags.com

Pest Heat (propane heaters), 900C Tryens Rd., Aston, PA 19014; 610/558-0837; 877/234-5630; www.pestheat.com

Pfizer, Inc., 235 East 42nd St., New York, NY 10017; 800/879-3477; www.pfizer.com

Pharm Solutions, 2023 East Sim's Way #358, Pt. Townsend, WA 98368, 805/927-7500, Fax 805/927-7501; www.pharmsolutions.com

Phero Tech Inc. (see Contech Ent.), 7572 Progress Way, Delta, BC, CANADA V4G 1E4; 604/940-9944, Fax 604/940-9433; www.contech-inc.com

Planet Natural, 1612 Gold Ave., Bozeman, MT 59715; 800/289-6656, 406/587-5891, Fax 406/587-0223; www.planetnatural.com

Plant Health Care, 285 Kappa Drive, Ste 100, Pittsburgh, PA 15238; 800/421-9051, 412/826-5488, Fax 412/826-5445; www.planthealthcare.com

Plant Products, 314 Orenda Way, Brampton, ON L6T 1G1; 800/387-2449, 905/793-7000; Fax 905/293-9157; www.plantprod.com

Plant Success Inc., 2133 S. Hathaway St., Santa Ana, CA 92705; 714/545-5335, Fax 714/545-5429; www.plant-success.com

PNE Inc. (see Rincon-Vitova), 34555-C Mills Road, North Ridgeville, OH 44039-1844; 440/327-2930

Pole Care, PO Box 270721, Fort Collins, CO 80527; 970/204-4543, 970/204-4543; www.polecare.com

Poulenger USA (Naex), PO Box 421177, Houston, TX 77242; 800/956-0063, 281/879-0932, Fax 281/879-1081; www.poulenger.com

Premier Enterprises, 2806 Oakhurst Drive, Los Angeles, CA 90034; 310/839-5000, Fax 310/837-9867

Professional Equipment, PO Box 5197, Janesville, WI 53547; 800/334-9291; www.professionalequipment.com

Prophyta, Inselstrasse 12, D-23999, Malchow, Poel, Germany; www.prophyta.de

Pro-Team, 866/888-2168, Fax 800/844-4995; www.pro-team.com

Q

Quick Trading Company, 9 Lake Avenue, Piedmont, CA 94611; 800/635-8883, 916/771-4203; <http://quicktrading.com>

R

Real Goods, 833 W. South Boulder Rd.,

Louisville, CO 80027; 888/567-6527; <http://realgoods.com>

Reed-Joseph International Co., PO Box 894, 800 Main St., Greenville, MS 38701; 800/647-5554, 662/335-5822, Fax 662/335-8850; www.reedjoseph.com

REI, PO Box 1938, Sumner, WA 98390-0800; 800/426-4840, 253/891-2500, Fax 253/891-2523; www.rei.com

Renee's Garden Seeds, 6060 Graham Hill Rd., Felton, CA 95018; 888/880-7228; www.reneesgarden.com

RF Interscience Co., 414 S. Service Rd., Ste 119, Patchogue, NY 11772; 631/447-5321, Fax 866/262-6909; www.rfinterscience.com

Richmond Fisheries, 8609 Clark Rd., Richmond, IL 60071; 815/675-6545, Fax 815/675-6545

Richway Industries, PO Box 508, 504 N. Maple, Janesville, IA 50647; 800/553-2404, 319/987-2976, Fax 319/987-2251; www.richway.com

Rincon-Vitova Insectaries Inc., PO Box 1555, Ventura, CA 93002; 800/248-2847, 805/643-5407, Fax 805/643-6267; www.rinconvitova.com

Rittenhouse and Sons, RR#3, 1402 Fourth Ave., St. Catharines, ON, L2R 6P9; Canada; 800/461-1041, 905/684-8122, 905/684-1382; www.rittenhouse.ca

Rockwell Labs, 1257 Bedford Rd., North Kansas City, KS 64416; 866/788-4101, 816/283-3167, Fax 816/283-3173; www.rockwell-labs.com

Rohde's Green Sense, 1651 Wall Street, Garland, TX 75041; 800/864-4445, 972/864-1934, Fax 972/864-0128; www.beorganic.com

Rohm and Haas (see Dow), 100 Independence Mall West, Philadelphia, PA 19106; 215/592-2737, Fax 215/592-3377; www.dow.com

Rose Catalog, PO 677, Mantua, OH 44255; 330/296-2618; www.combinedroselist.com

Roxide International Inc. (see Bonide), www.bonide.com

S

Safe Earth Lawn and Gardens, PO Box 339, Pleasantville, IA 50225; 515/289-2039; www.safe-earth.biz

Safe Effective Alternatives, PO Box 528, Belleville, IL 62222-0528; 877/730-2727, Fax 618/236-2826; www.s-e-a.net

Safeguard Products, PO Box 8, New Holland, PA 17557; 800/433-1819, Fax 717/355-2505; www.safeguardproducts.com

SaferGro, PO Box 6194, Ventura, CA 93006; 805/-650-8918, www.safergro.com

Safer Products (see Woodstream)

San Jacinto Environmental Supplies, 2221 West 34th, Houston, TX 77018; 713/957-0909, Fax 713/957-0707; www.sanjacsupply.com

San Luis Video Publishing, PO Box 6715, Los Osos, CA 93412; 805/528-8322, Fax 805/528-7227; www.horticulturevideos.com

Santa Cruz Horticultural Supply, PO Box 15205 San Luis Obispo, CA 93406; 805/602-6032, Fax 805/772-8262; www.santacruzhorticultural.com

Sashco Sealants, 10300 E. 107th Pl., Brighton, CO 80601; 800/767-5656, 303/286-7271, Fax 303/286-0400; www.sashco.com

Saskatoon Boiler Manufacturing, 2011 Quebec Avenue, Saskatoon, Saskatchewan, CANADA S7K 1W5; 306/652-7022, Fax 306/652-7870; www.saskatoonboiler.com

Sautter & Stepper, Rosenstr. 19, 72119 Ammerbuch, Altingen, GERMANY; 07032-957830, Fax 07032-957850; www.nuetzlinge.de

Sawyer Products, PO Box 188, Safety Harbor, FL 34695; 800/356-7811, 727/725-7811, Fax 727/725-1954; www.sawyer.com

Scentry Biologicals, 610 Central Avenue, Billings, MT 59102; 800/735-5323, 406/245-3016, Fax 406/245-2790; www.scentry.com

Scotts Company, 14111 Scottslawn Rd., Marysville, OH 43041; 800/221-1760, 937/642-6402, Fax 937/644-5533; www.scotts.com

S.C. Johnson, 1525 Howe St., Racine, WI 53403; 800/494-4855, 262/260-2000; www.scjohnson.com

Seabright Laboratories, 4026 Harlan St., Emeryville, CA 94608; 800/284-7363, 510/655-3126, Fax 510/654-7982; www.seabrightlabs.com

Senoret Chemical Co. (see Woodstream Corporation), 800/800-1819; www.terro.com

Sespe Creek Insectary, PO Box 176, Lindsay, CA 93247; 559/562-6464, Fax 559/562-5565

Sigma Chemical Co., PO Box 14508, St. Louis, MO 63178; 800/325-3010, 314/771-5750, Fax 800/325-5052; www.sigmaaldrich.com

Silver Lake Research, PO Box 686, Monrovia, CA 91017; 888/438-1942, 626/359-8441, Fax 626/359-6601; www.silverlakere-search.com

Sioux Corp., One Sioux Plaza, Beresford, SD 57004; 888/763-8833, 605/763-3333, Fax 605/763-3334; www.siuox.com

S & J Ranch, PO Box 3347, Pinedale, CA 93650; 559/439-2598, Fax 559/435-8067

Soil Foodweb Oregon Inc. (see Earthfort), 635 SW Western Blvd., Corvallis, OR 97333; 541/257-2612; www.soilfoodweb.com; www.earthfort.com

Soil Soup (Microbial Magic), 19689 7th Ave. NE, Ste 190, Poulsbo, WA 98370, 360/297-2224; www.soilsoup.com

Soil Technologies, 2103 185th Street, Fairfield, IA 52556; 800/221-7645, 641/472-3963, Fax 641/472-6189; www.soiltechcorp.com

Spalding Laboratories, 760 Printz Rd., Arroyo Grande, CA 93420; 888/880-1579, Fax 866/738-9632; www.spalding-labs.com

Specialty Products (Nordson EFD), 40 Catamore Blvd., East Providence, RI 02914; 800/556-3484, 401/431-7000, Fax 401/431-7079; www.nordson.com

Sperian Respiratory Protection, 3001 S. Susan St., Santa Ana, CA 92704; 800/821-7236, 714/545-0410, Fax 800/201-4407; www.honeywellsafety.com

Spray-N-Grow, 20 Hwy 35 South, Rockport, TX 78382; 800/323-2363, 361/790-9313;

www.spray-n-grow.com

Springstar, PO Box 2622, Woodinville, WA 98072; 800/769-1043, 425/487-6011, Fax 425/487-4360; www.springstar.net

Stateline Tack, 1 Maplewood Drive, Hazelton, PA 18202; 800/814-4332, 570/384-7656; www.statelinetack.com

Sterling Insectary (see BioBest USA West), 661/792-6810; www.biobest-usa.com

Sterling International, Inc., 3808 N. Sullivan Rd., Bldg 16, Spokane, WA 99216; 800/666-6766, 509/926-6766, Fax 509/928-7313; www.rescue.com

St. Gabriel Organics, 14044 Litchfield Rd., Orange, VA 22960; 800/801-0061, 540/672-0866, Fax 540/672-0052; www.stgl.us

Stoller Enterprises, Inc., 4001 W. Sam Houston Pky N., Suite 100, Houston, TX 77043; 800/539-5283, 713/461-1493, Fax 713/461-4467; www.stollerusa.com

Streamlight Inc., 30 Eagleville Road, Eagleville, PA 19403; 800/523-7488, 610/631-0600, Fax 610/631-0712; www.streamlight.com

Strieter Corp., 3918 14th St., Rock Island, IL 61201; 309/794-9800, Fax 309/794-9191; www.strieter-lite.com

Stromberg's Chicks & Game Birds Unlimited, Box 400, Pine River, MN 56474; 800/720-1134, 218/587-2222, Fax 218/587-4230; www.strombergschickens.com

Summerset Products, 130 W. Columbia Court, Chaska, MN 55318; 800/237-7583, 954/368-0020, Fax 952/361-4217; www.summersetproducts.com

Summit Chemical Co., 235 S. Kresson St., Baltimore, MD 21224-2616; 800/227-8664, 410/522-0661, Fax 410/522-0833; www.summitchemical.com

Sunburst, 454 Willamette St., Eugene, OR 97401; 541/345-2272; www.thermalweed-control.com

Sun-Gro Horticultural, 770 Silver St., Agawam, MA 01001; 800/732-8667; www.sungro.com

Sun Oil Company, 1735 Market Street, Philadelphia, PA 19103; 800/395-2786, 215/977-3000; www.sunocoinc.com

Susan McKnight, Inc. PO Box 11406, Memphis, TN 38111; 901/848-3831, Fax 901/324-4035; www.insect-interceptor.com

Sustainable Agricultural Technologies, PO Box 1295, Cottage Grove, OR 97424; 800/779-1709, 541/767-2747, Fax 541/767-2744; www.composttea.com

Suterra, 20950 NE Talus Place, Bend, OR 97701; 866/326-6737, 541/388-3688, Fax 541/388-3705; www.suterra.com

Sutton Ag Enterprises, 746 Vertin Ave., Salinas, CA 93901; 831/422-9693, Fax 831/422-4201; www.suttonag.com

SweetBriar Biosystems, 151 Silliman Rd., Watsonville, CA 95076; 831/722-5577, Fax 831/722-0191

Sylvan BioProducts, 90 Glade Drive, Kittanning, PA 16201; 866/352-7520, 724/543-3900; www.sylvaninc.com

Syngenta, PO Box 18300, Greensborough, NC 27419-8300; 800/334-9481, 336/632-6000, Fax 336/632-2653; www.syngenta.com

Syngenta BioLine, PO Box 2430, Oxnard, CA

93034-2430; 805/986-8265, Fax 805/986-8267; www.syngentabioline.com

T

Tanaco, Glentevej 11, 6705 Esbjerg, DENMARK; 75 14 28 00; www.tanaco.dk

Tanglefoot Co. (see Contech Enterprises), www.contech-inc.com

Target Specialty Products, 1155 Mabury Rd., San Jose, CA 95133-1029; 800/767-0719, 408/293-6032, Fax 408/287-2004; www.target-specialty.com

Temp-Air Thermal Remediation (electric heaters), 3700 West Preserve Blvd, Burnsville, MN 55337; 800/836-7432, Fax 952/707-5221; www.thermalremediation.com

Tenax Corp., 4800 E. Monument St., Baltimore, MD 21205; 800/356-8495, 410/522-7000, Fax 410/522-7015; www.tenaxus.com

Tender Corporation, 106 Burndy Road, Littleton, NH 03561; 800/258-4696; 603/444-5464, Fax 603/444-6735; www.tendercorp.com

Termatrac USA, Howard Hughes Center, 6080 Center Drive, 6th Floor, Los Angeles, CA 90045; 301/242-5854, Fax 310/564-2062; www.termatrac.com

Termi-Mesh (Hawaii), 1406 Colburn St. Suite 201C, Honolulu, HI 96817; 808/843-1968, Fax 808/843-0100; www.termimeshhawaii.com

Termi-Mesh (USA Mainland), 9475 E. Hwy 290, Austin, TX 78724; 512/997-0066, Fax 512/837-9671; www.termimeshusa.com

Termicam, Melbourne, Australia; www.termi-cam.com

Terminix, 860 Ridge Lake Blvd., Memphis, TN 38120; 800/858-9637, 901/766-1105; www.terminix.com

Termiscan, 61 2 9541 0577, Fax 61 2 9541 0559; www.termiscan.com

Termite Detection Systems, 5618 East Oak Island Dr., Oak Island, NC 28465; 910/201-4146, Fax 910/278-7587; www.termitedetector.com

Terramera, Inc., #155-887 Great Northern Way, Vancouver, BC CANADA V5T 4T5,



- 604/639-9600, Fax 604/909-1833; www.terramera.com
- Tersenderlo Kerley**, 2255 N44th St., Ste 300, Phoenix, AZ 85008; 602/889-8300; www.tkinet.com
- The Aerogen Co. Ltd.**, 17 Newman Lane, Alton, Hampshire, ENGLAND GU34 2QR; 44-1420-83744, Fax 44-1420-80032; www.aerogen.co.uk
- The Antser**, PO Box 21392, Concord, CA 94521; 925/686-4437, Fax 510/868-8378; www.theantser.com
- The Bug Factory**, 1636 East Island Hwy, Nanoose Bay, BC, CANADA V9P 9A5; 250/468-7912, Fax 250/468-9484; www.thebugfactory.ca
- The Ecology Works**, PO Box 9922, West Palm Beach, FL 33419; 888/353-2649, 561/848-1618, Fax 561/848-1619; www.dustmitex.com
- The Green Spot, Ltd (see Greenmethods)**, www.greenmethods.com
- The Ladybug Company**, PO Box 329, Berry Creek, CA 95916; 530/589-5227
- The Natural Gardening Co.**, PO Box 750776, Petaluma, CA 94975-0776; 707/766-9303, Fax 707/766-9747; www.naturalgardening.com
- The Scotts Company**, 14111 Scottslawn Rd., Marysville, OH 43041; 800/221-1760, 937/642-6402, Fax 937/644-5533; www.scotts.com
- Thermature/TPE Associates**, 180 Canada Largo Road, Ventura, CA 93001; 800/375-7786, Fax 805/648-6999; www.thermature.com
- Thermo Lignum UK Ltd.**, Unit 14, BIE, 50 Cunnington St., Chiswick, London W4 5HB, UK; +44-208 747 0900, Fax +44-208 747 0955; www.thermolignum.com
- The Weed Wrench**, PO Box 512, Grant's Pass, OR 97528; 877/484-4177, 541/471-2012, Fax 541/471-4120; www.weedwrench.com
- Ticab AB Sweden**, PO Box 90, 61621 Aby, SWEDEN; +4640460257, Fax +461160170
- Tipper Tie-Net (Conwed Plastics)**, 2810 Weeks Ave. SE, Minneapolis, MN 55414; 800/426-0149, Fax 800/426-0317; www.conwedplastics.com
- Tip Top Biocontrol**, PO Box 7614, Westlake Village, CA 91359; 805/445-9001; www.tip-topbio.com
- Tomagro International**, PO Box 30195, 3001 DD Rotterdam, NETHERLANDS; 10 405 23 00, Fax 10 405 51 06; www.tomagro.nl
- Tomahawk Traps and Equipment**, PO Box 155, Hazelhurst, WI 54531; 800/272-8727, 715/356-4600, Fax 715/356-4611; www.livetrapp.com
- Topp Portable Air**, 900C Tryens Rd., Aston, PA 19014; 877/892-9351, Fax 610/459-3822; www.etop.com
- TPE Associates/Thermature**, 180 Canada Largo Road, Ventura, CA 93001; 800/375-7786, Fax 805/648-6999; www.thermature.com
- Trapper Jack (see Target Specialty Products)**, 800/423-3396
- Trécé Inc.**, PO Box 129, Adair, OK 74330; 866/785-1313, 918/785-3061, Fax 918/785-3063; www.trece.com
- Trident Enterprises (Deer Busters)**, 9735A Bethel Rd., Frederick, MD 21702; 888/422-3337, 301/694-6072, Fax 301/694-9254; www.deerbusters.com
- Troy Biosciences, Inc.**, 113 S. 47th Avenue, Phoenix, AZ 85043; 800/448-2843, 602/233-9047, Fax 602/272-4155; www.troybiosciences.com
- Tru-Test Inc.**, 528 Grant Road, Mineral Wells, TX 76067; 800/874-8494, Fax 940/327-8048; www.tru-test.com
- Turf Seed (Scotts)**; 7644 Keene Rd., Gervais, OR 97026; www.scotts.com
- U**
- United Industries**, 2520 Northwinds Parkway, Alpharetta, GA 30004; 800/332-5553; www.spectrumbrands.com
- Univar USA**, 2256 Junction Ave., San Jose, CA 95131; 800/888-4897, 408/435-8700, Fax 408/434-6489; www.univarusa.com
- University of California Statewide IPM Program**, University of California, Davis, CA 95616-8621; 530/752-8350, Fax 530/752-6004; www.ipm.ucdavis.edu
- UPMA Labs**, PO Box 469, Alpharetta, GA 30004; 678/977-0160, Fax 678/366-6934; www.upmalabs.com
- U.S. Borax Inc.**, 8051 E. Maplewood Ave. No. 4, Greenwood, CO 80111, 303/713-5000; www.borax.com
- USDA Insect Rearing Lab**, 501 South Chapel St., Newark, DE 19713; 302/731-7330; www.ars.usda.gov
- U.S. Forest Service, USDA**, 14th and Independence Aves., Washington, DC 20250; 202/205-8333; www.fs.fed.us
- V**
- Valent BioSciences**, 870 Technology Way, Libertyville, IL 60048; 800/323-9597, 847/968-4700, Fax 847/968-4780; www.valentbiosciences.com
- Valent USA**, PO Box 8025, Walnut Creek, CA 94596-8025; 800/624-6094, 925/256-2700, Fax 925/256-2844; www.valent.com
- Value Gardens**, 9100 W. Bloomington Freeway, Suite 113, Bloomington, MN 55431; 888/603-1008, 952/884-6477; www.valuegardens.com
- Vegetable Juices Inc.**, 7400 S. Narragansett, Chicago, IL 60638; 708/924-9500; www.vegetablejuices.com
- Verus Labs**, 800/206-7821; www.twinject.ca
- Vintage Gardens**, 4130 Old Gravenstein Highway N., Sebastapol, CA 95472; 707/829-2035, Fax 707/829-9516; www.vintagegardens.com
- W**
- Walt's Organic Fertilizer**, PO Box 31580, Seattle, WA 98103; 206/783-6685; www.waltsorganic.com
- Waterbury Companies Inc. (see FMC)**, 1735 Market St., Philadelphia, PA 19103; 800/321-1362, Fax 215/299-6100; www.fmcprosolutions.com
- W. Atlee Burpee Seed Co.**, 300 Park Ave., Warminster, PA 18974; 800/888-1447, 215/674-4900, Fax 800/487-5530; www.burpee.com
- Weed Badger Division**, 5673 95th Ave. SE, Marion, ND 58466-9718; 800/437-3392, 701/778-7511, Fax 701/778-7501; www.weedbadger.com
- Wescor Inc.**, 370 West 1700 South, Logan, UT 84321; 800/453-2725, 435/752-6011, Fax 435/752-4127; www.wescor.com
- Western Farm Service (see Crop Production Services)**, www.cpsagu.com
- WF Young, Inc.**, 302 Benton Drive, East Long Meadow, MA 01028; 800/628-9653, Fax 413/526-8990; www.absorbine.com; www.wfyoung.com
- Whitmire Microgen Inc. (see BASF)**, 26 Davis Drive, Research Triangle Park, NC 27709; http://pestcontrol.basf.us
- Wildlife Control Technology Inc.**, 2501 N. Sunnyside Avenue, Fresno, CA 93727; 800/235-0262, 559/490-2262, Fax 559/490-2260; www.wildlife-control.com
- Wildlife Management Supplies (a Division of Critter Control)**, 9435 Cherry Bend Rd., Traverse City, MI 49684; 800/451-6544, 231/947-2400, Fax 231/947-9440; www.crittercontrol.com
- Wildlife Supply Company**, 86475 Gene Lassere Blvd, Yuke, FL 32097; 800/799-8301, 904/225-9889; www.wildco.com
- Willamette Organics**, 5645 SW Scholls Ferry Rd., Portland, OR 97225; 877/432-6249, Fax 503/585-9321; www.willametteorganics.com
- Wilt-Pruf Products Inc.**, PO Box 469, Essex, CT 06426-0469; 800/972-0726, 860/767-7033, Fax 860/767-7265; www.wiltpruf.com
- Wireless Deer Fence**, 7654 Shilo Rd. PO Box 11, Unionville, IN 47468; 866/468-3337, 812/333-5307; www.wirelessdeerfence.com
- W. Neudorff**, Postfach 1209, D-31857, Emmerthal, GERMANY; 49-5155-624160, Fax 49-5155-6010; www.neudorff.com
- Woods End Research Laboratory**, 290 Belgrade Rd., PO Box 297, Mt. Vernon, ME 04352; 800/451-0337, 207/293-2457, Fax 207/293-2488; www.woodsend.org
- Woodstream**, 69 N. Locust St., Lititz, PA 17543-0327; 800/800-1819, 717/626-2125, Fax 717/626-1912; www.woodstreampro.com
- WPC Brands**, 1 Repel Road, PO Box 198, Jackson, WI 53037; 800/558-6614, 262/677-4121, Fax 262/677-9006; www.repel.com
- W.R. Grace**, 62 Whittemore, Cambridge, MA 02140; 800/354-5414; www.grace.com
- W.R. Grace**, 7500 Grace Drive, Columbia, MD 21044; 410/531-4791; www.grace.com
- XYZ**
- XT-2000**, 10107 Prospect Ave. #B, Santee, CA 92071; 866/870-8485, 619/542-8469, Fax 619/542-8471; www.xt2000.com
- Xylocopa Systems**, PO Box BW 1011, Borrowdale, Harare, ZIMBABWE; +263/4 88 20 94, Fax +263/4 88 20 94
- Zoecon (Central Life Sciences)**, 1501 E. Woodfield Road, Suite 200 West, Schaumburg, IL 60173; 800/248-7763, Fax 800/426-7473; www.zoecon.com
- Zonda Resources Ltd.**, 403 Alexandra St., Hastings 4201, NEW ZEALAND; +64 68786010, Fax +64 68762132; www.zonda.net.nz

INDEX

A

Abamectin 3, 14, 16
Abamectin gel bait 10
Aceria malherbae 29
Acoustic termite detector 18
Adhesive Black Light Traps 12
Advantage 11
Africanized Bees 21
Agapeta zoegana 29
Agonopterix alstroemeriana 29
Agrobacterium radiobacter 23
Alarms & detonators 25, 27, 28
Algae Control 29
Alternaria cassiae 30
Altosid 17
Amblyseius andersonii 15
Amblyseius barkeri 19
Amblyseius californicus 15
Amblyseius cucumeris 15, 19
Amblyseius degenerans 15, 19
Amblyseius fallacis 15
Ampelomyces quisqualis 23
Anagrus atomus 14
Anagrus epos 14
Anagrus spp. 14
Anagrus fusciventris 15
Anagrus pseudococci: 15
Anaphes iole 7
Anaphes spp. 6
Anastatus tenuis 10
Anisopteromalus calandrae 6, 9
Anthrenus nemoralis 22
Antibiotic, streptomycin 23
Antitranspirants 23
Aphelinus abdominalis 4
Aphidius colemani 4
Aphidius ervi 4
Aphidius matricariae 4
Aphidius spp. 4
Aphidoletes aphidimyza 4
Aphthona spp. 29
Aphytis lingnanensis 17
Aphytis melinus 17
Apion fuscirostre 29
Apion ulicis 29
Apistan Strips 16
Apocera plagiata 29
Apple maggot 12
Apple scab forecasting 21
Apple scab forecasting equipment 23, 25
Application equipment 22, 30
Aprostocetus hagenowii: 10
Aquatic sampling equipment 22
Arthrobrithys 17
Artificial diets 22
Atheta coriana 13
Attractant for cucumber beetle 5
Attractant for lady beetles 4
Attractant for Mosquito Traps 16
Attractant for soldier bugs 6, 7, 8
Asian ladybug trap 6

B

Bacillus chitinosporus: 17
Bacillus laterosporus 23
Bacillus licheniformis 24
Bacillus popilliae 6
Bacillus pumilis 23
Bacillus sphaericus 16
Bacillus subtilis 23, 24
Bacillus thuringiensis (BT) 6, 8, 13
Bacillus thuringiensis aizawai 9
Bacillus thuringiensis israelensis (BTI) 16
Bacillus thuringiensis kurstaki (BTK) 9
Bacillus thuringiensis tenebrionis (BTT) 6
Bacillus uniflagellus 24
Bacterial wilt control 23
Bag to Seal Caskets 11
Bait applicator 22
Bait gun 10
Bait stations 28
Baited Beetle Trap 6
Baits 6, 28
 Abamectin 10
 Borate-based 10
 Hydramethylnon 10
Bangastermus orientalis 29
Barriers & exclusion devices 4, 14, 17, 18, 25, 27
Bat house 22
Bat house construction booklet 25
Bat Houses 8, 16, 25
Beauveria bassiana 4, 6, 7, 9, 15, 19, 20
Bee Pheromone Lure 21
Bee Pheromone Spray 21

Bee swarm traps 21
Beekeeping equipment 21
Beet armyworm 9
Beneficial microorganisms 25
Beneficial Seed Blend 4
Beneficial Seeds and Plants 7
Bicarbonate fungicide 23
Biocontrol Fungi 17
BioMop 10
Biostimulation 29
Black Light Fly Traps 12
Blepharipa schineri 9
Borate ant gel bait 3
Borate ant baits: 3
Borate granular fire ant bait 3
Borate rods 3
Borate Treated Logs 7
Borate Treated Lumber 7
Borate treatments 3
Borate-based insecticides 3, 6, 7, 10, 13, 18, 21
 Borate rods 3, 7
 Borate termiticide & wood preservative 7, 18
 Borate treatments 3
 Borate-treated mulch 18
 Boric acid 11, 18
 Borate-treated logs 18
 Borate-treated lumber 3, 18
Botanical Repellents 9, 17
Bracon hebetor 9
Brachypterus pulicarius 29
BT (for citrus leafminer) 14
Burkholderia cepacia: 17, 24

C

Calcium Foliar Spray 23
Calcium Thiosulfate 24
California Native Grass and Flower Seeds 22
California Native Plants 8, 29
Canada geese 26
Candida oleophila 23
Carbon dioxide termite detector 18
Carcinops pumilio 12
Cassida rubiginosa 29
Catalaccus spp. 6
Cat tongs 26, 28
Catch Poles 28
Caulk 10
Ceutorhynchus litura 29
Chilocorus baileyi 17
Chilocorus circumdatus 17
Chilocorus nigritus 17
Chitosan 24
Chrysolina quadrigemina 29
Chrysoperla carnea or Chrysopa carnea 4, 20
Chrysoperla rufilabris or Chrysopa rufilabris 4
Chrysoperla spp. 4, 19
Cinnamite 16
Citronella candles 17
Citrus oil 19
Citrus or herbal oil extract 11
Citric acid fly control 12
Citric acid herbicide
Coccophagus lycimnia 17
Codacide 20
Codling moth granulosus virus 9
Cold treatment 7, 18
Coleomegilla maculata: 4
Coleophora klimeschiella 29
Coleophora parthenica 29
Colletotrichum gloeosporioides 30
Combs 11
Comperia merceti 10
Compost 23
Compost Aids 25
Compost Maturity Test Kit 25
Compost maturity test kit 21, 24
Compost tea brewers 25
Coniothyrium minitans 23
Container-grown beneficial plants 4
Controlled atmosphere system 5, 8
Copper & sulfur fungicides 24
Copper mesh 25
Copper mesh hole filler 25, 27
Corn gluten hydrolysate 30
Corn gluten meal 30
Cotesia marginiventris 9
Cotesia plutellae 9
Crittter Ridder 26
Cryptolaemus montrouzieri 15
Cybocephalus catalinae 17
Cybocephalus nipponicus 17
Cypocleonus achates 30
Cyromazine 13, 14

D

Dacnusa sibirica 14
Databases 21
Deer repellents 27
Degree-day Calculators 22
Delphastus pusillus 20
Deraeocoris brevis 5, 7, 9, 19
Detection kit for pathogens 24
Detection kit for turf diseases 24
Deterrents 25, 26, 27
 Alarms & detonators 26
 Light deterrent 26
 Reflective tape 26
 Roadside highway reflectors 26
Diadegma insularis 9
Diaeretiella rapae 4
Diatomaceous earth 3, 5, 6, 7, 9, 10, 11, 12, 13, 19, 20, 21
 With pyrethrin 3, 5, 6, 7, 9, 10, 11, 12, 13, 19, 20
Diatomaceous Earth: 3
Diflubenzuron Exterra System 19
Diflubenzuron termite bait 19
Diglyphus isaea 14
Disease-resistant roses 23
Disease-suppressive container mixes 24
Donkeys to Protect Sheep 27
Dust applicators 10
Dusters 23

E

Earthworms 22
Earwig Shelte 4
Earwig Shelters 8
Ectomycorrhizae 24
Educational Materials 29
Electric fencing 26, 27, 28
Electric Shock Deterrent 26
Electric Shredder to Make Mulch 29
Electric soil sterilizer 24
Electrical treatment 7, 18
Electrocutor trap 27
Electrostatic sprayers 23
Elicitors 23
Encarsia deserti: 20
Encarsia formosa 20
Encarsia munulus: 20
Encarsia opulenta 16
Encyrtus lecaniorum: 17
Endophytic Ryegrass 7, 8
Endophytic Tall Fescue 8
Endophytic tall fescue 7
Entomological specimens 21
Entomopathogenic fungus 22
Enzyme Soap 5
Epazote (Chenopodium ambrosioides) 6
Episyphus balteatus 4
Eretmocerus californicus 20
Eretmocerus eremicus 20
Essential oil fungicides 23
Euseius rubini 20
Euseius spp. 18
Eustenopus villosus 29

F

Feltiella 15
Fenoxycarb 18
Fenoxycarb (for fire ants) 3
Fipronil 19
Fipronil Bait Station 3
Fipronil bait station 10
Fipronil flea adulticide 11
Fire blight 23
First-aid for bee stings 21
FirstLine 19
Flamers 29
Flashlight with red filters 10, 22, 25, 27
Flowable sulfur 24
Fly bonnet for horses 11
Fly Traps 11, 12
Fungicidal Soap 24
Furniture covers 15
Fusarium oxysporum 24

G

Galendromus annectans 15
Galendromus helveolus 16
Gallerucella pusilla 30
Garlic Repellents: 6
Garlic spray repellent 3, 5, 13, 16, 19, 21
Gentrol for bedbugs 7
Geocoris punctipes 5, 9
Geolaelaps spp. 13

Giant knotweed extract 24
Gliocladium 24
Gliocladium catenulatum 24
Glomus intraradix 24
Glyptapanteles indiensis 9
Goniozus legneri 9
Gopher bait 26
Gopher resistant plants 26
Gopher traps 26
Granulosis virus 9
Grape mildew 23
Guard donkeys 26
Gypsy moth 9

H

Habitat 4, 22, 23
Harmonia axyridis 4
Harpin (Messenger) 23
Head lice products 14
Heat treatment 3, 7, 18, 29
Herbal Flea Collar 11
Herbicide essential oil 30
Herbicide soap 30
Heterorhabditis bacteriophora: 6, 8
Heterorhabditis marelatus 8
Noviflumuron 19
High Pressure Water Sprayer 15
Hippodamia convergens 4
Horse Fly Trap 12
Hot Pepper and Mustard Repellent 6
Hot Pepper Wax 5
Hot Water Weed 29
Hydramethylnon 3, 10
Hydramethylnon (for fire ants) 3
Hydrepore 10
Hydrotaea aeneascens 12
Hyles euphorbiae 29
Hyperaspis polita 15
Hypoaspis aculeifer 16
Hypoaspis miles 12, 13, 19

I

Identification 22
Imidacloprid 6, 11
Indicator plant 23
Information/identification services & supplies 21, 25, 29
Infra-red termite detector 18
Infra-Red Triggered Water Cannon 28
Insect Growth Regulators 6, 9
Insect growth regulators 5, 13, 20
Methoprene 11, 13, 17
Insect rearing supplies 22
Insect Repellent Garbage Bags 21
Insect-parasitic nematodes 11, 12, 13
 Heterorhabditis megidis 6, 12, 13
 Heterorhabditis spp. 6, 12, 13
 Steinemema carpocapsae or Neoplectana 8
 Steinemema carpocapsae or Neoplectana carpocapsae 6, 12, 13
 Steinemema spp. 12, 13
Insect-resistant turfgrass 7, 8
Insecticidal oil 5, 6, 9, 11, 13, 14, 16, 18, 19, 20
Insecticidal soap 3, 5, 6, 7, 9, 11, 13, 15, 16, 17, 18, 19, 21
Insecticide Resistance 11
Inspection mirror 22
Integrated Bait Station 3
IPM tool kit 22
Irrigation Equipment 23
Ivermectin 12
Ivy Block 29

L

Larinus minutus
Larinus obtusus
Lead Testing Kit 22
Lemon Eucalyptus mosquito repellent 17
Leptomastidea abnormis: 15
Leptomastix dactylopii: 15
Leptomastix epona 15
Lettuce downy mildew 23
Leucoptera spartifoliella 30
Lice gel 14
Limonene 3, 18
Lindorus lophanthae 17
Live traps 26, 27, 28
Longitarsus jacobaeae 30
Lufenuron (Program) 11
Lysiphlebus testaceipes 4

M

Macrocentrus ancylovorus 9

INDEX

Macrocheles spp. 12
 Macrophopus caliginosus 20
 Macrophopus nubilus 19
 Mallada signata 4, 19, 20
 Mattress covers 15
 Mealybug destroyer 15
 Mechanical weeder 29
 Mecinus janthinus 30
 Mesoseiulus longipes or Phytoseiulus longipes 16
 Messenger (harpin) 23
 Metal projectors 25
 Metaphycus helvolus 17
 Metaphycus zebratus 17
 Metarhizium anisopliae 7, 14, 19
 Metaseiulus occidentalis or Galendromus occidenta 16
 Meteorus pulchricornis 9
 Methoprene 11, 13
 Methoprene pellets 17
 Metzneria paucipunctella 30
 Microbial antagonists 24
 Microbial feeding stimulant 8
 Microbial fungicides 23
 Microbial soil amendments 25
 Microlarinus lareynii 30
 Microlarinus lypriformis 30
 Microscopes 22
 Microterys flavus 17
 Microwave equipment 7, 18
 Microwave treatment 7, 18
 Microwave termite detector 18, 22
 milky spore disease 6
 Milsana 24
 Minute pirate bug 5
 Minnesota fence 26
 Moisture meters 18, 22
 Mole repellent 26
 Mole trap 26
 Monitoring/collection equipment 16, 22
 Mosquito Dunks 16
 Mosquito fish 16
 Mosquito traps 16
 Mosquito Rrepellents 17
 Mosquito-Repelling Plants 17
 Mulch (weed) 29
 Muscidifurax raptor 12
 Muscidifurax raptorellus 12
 Muscidifurax spp. 12
 Muscidifurax zaraptor 12
 Mycorrhizae 24
 Mycotoxin Detection 25
 Myrothecium verrucaria: 17

N

Nasonia vitripennis or Mormoniella vitripennis 12
 Neem 5, 6, 8, 9, 13, 14, 15, 17, 19, 21
 Neemcake 17
 Neem Products (for mildew, botrytis, rust) 24
 Neem mosquito repellent 17
 Nematocides 5, 17
 Nematodes 6, 8
 Neodryinus typhlocybae 14
 Neoseiulus scyphus 16
 Neoseiulus setulus 16
 Nephus reunioni: 15
 Netting 25, 27
 Nosema locustae 13
 NPV (nucleopolyhedrosis virus) 9
 NPV (nucleopolyhedrosis virus) (for beet armyworm) 9
 NPV from H. zea 9

O

Oberea erythrocephala 30
 Octenol 16
 Oil and Lime-Sulfur 24
 Onthophagus gazella 12
 Opius pallipes 14
 Organic Fertilizer 23
 Orgilus lepidus 9
 Orius aldpennisi 19
 Orius insidiosus 5, 15, 19
 Orius laevigatus 5, 15, 19
 Orius majusculus 15, 19
 Orius spp. 5, 15, 19
 Orius tristicolor 5, 15, 19
 Oxygen Impermeable Film 5

P

Pachycrepoideus vindemiae 12
 Paecilomyces fumosoroseus 20

Paecilomyces sp. 4
 Peat moss 24
 Pedibius foveolatus 6
 Pentalitomastix plethoricus 9
 Permethrin Cream Rinse 14
 Permethrin tick repellent 19
 Peroxide Oxidants 24
 Pesticide Application Equipment 22
 Pesticide detection kits 22
 Phasmarhabditis sp 18
 Pheromone Mating Disruptants 9
 Pheromone puffer 10
 Pheromones & traps 4, 5, 7, 10, 11, 12, 17, 19, 20, 21

For agricultural & horticultural insects

5, 8
 For forestry insects 5, 8
 For Japanese beetle 5
 For stored product insects 5, 8
 Phytophthora palmivora
 For strangervine 30
 Phytoseiulus macropilis 16
 Phytoseiulus persimilis 16
 Pine oil (for fire ant control) 3
 Pisolithus tinctorius 24
 Plant disease detection kits 25
 Plant Disease Prediction Software 25
 Plantskydd 27
 Plants to repel pest Lepidoptera 8
 Plastic fence 26
 Plastic film to attract leafhoppers 14
 Plastic Tree Shields 26
 Podisus maculiventris 6, 7, 9
 Point Source 10
 Poison oak/ivy cleanser/prevention 29
 Poles to catch animals 28
 Pollinators 22
 Portable Bailer to Recycle Solarization Plastic 24
 Predatory nematode for snails 18
 Predatory snail 18
 Premise 18
 Protective Gloves 28
 Protective Skin Coating 23
 Pseudaphycus flavidulus: 15
 Pseudaphycus maculipennis: 15
 Pseudomonas aureofaciens 24
 Pseudomonas cepacia 24
 Pseudomonas fluorescens 23
 Pseudomonas solanacearum 23, 24
 Pseudomonas spp. 24
 Pseudomonas syringae 23
 Pseudoscyrmus tsugae 5
 Publications & AV products 21, 25, 29
 Purple martin bird houses 16
 Pyemotes tritici 3
 Pyrethrin 3, 5, 6, 8, 10, 11, 12, 13, 14, 16, 18, 19, 20, 21
 For head lice 14
 For pubic lice 14
 Pyrethrin repellent 17
 Pyrethrin, rotenone, copper, sulfur 8
 Pyrethrin shampoo 14
 Pyrethrin, with pubic lice comb 14
 Pyrethroid 11, 16, 18, 20
 Pyrethrum 5, 10, 11
 Pyrethrum Powder 6
 Pyriproxifen fire ant bait 3

R

Radon Test Kits 22
 Rats and mice 27
 Recycle Solarization Plastic 23
 Reflective mulch 4
 Repellent gel 26
 Repellent Hot Pepper and Mustard 5
 Repellents 12, 17, 19, 26, 27, 28, 29
 Repelling balloons 26
 Repelling kites 26
 Sticky repellent 26
 Repellent Mulch 3
 Resmethrin 21
 Respirators 23
 Rhapsody 23
 Rhinocyllus conicus 30
 Rigid borescope 18
 Roach attractant 10
 Rodent contamination detection 27
 Root Guard Baskets 26
 Row covers 4, 5, 7, 8, 13, 22
 Rumina decollata 18

S

Sabadilla 5, 6, 8, 10, 13

Scarecrow 26
 Screening 4, 7, 12, 13, 16, 17, 19, 20
 Scymnus 17
 Scymnus bipunctatus: 15
 Seed mix 6, 22
 Seed Mix to Attract Beneficials 8
 Sensor to Turn On Sprinklers 26
 Sentricon 19
 Silica aerogel 3, 7, 8, 10, 11, 12, 16, 20, 21
 With ammonium fluosilicate 3, 7, 8
 With pyrethrin 3, 7, 8, 10, 12
 Sitotroga cerealella 22
 Skunk deodorant 28
 Slides on biological control 21
 Slug Bait 18
 Slug Trap 18
 Smoke Bomb 26
 Snail barrier 18
 Snake tongs 28
 Soil Testing Kits 22, 25
 Solar-powered Ant Trap 3
 Solarization Plastic 24
 Spalangia cameroni 12
 Spalangia corana 12
 Spalangia endius 12
 Spalangia nigroaenea 12
 Sphegigaster sp. 12
 Sphenoptera jugoslavica 30
 Spherimos 16
 Spiked lawn aerator sandals 6
 Spinosad fire ant bait 3
 Spinosad 6, 7, 9, 13
 Sprayers 23
 Spreader-Sticker Oil for BT 13
 Spurgia esulae 30
 Squirrel-Proof Bird Feeders 28
 Steam Machines and Boilers 24
 Steinernema bibionis: 13
 Steinernema carpocapsae 13, 18
 Steinernema feltiae: 6, 8, 12, 13
 Steinernema riobravisi: 6, 8
 Steinernema scapterisci 13
 Sterile flies 12
 Sterile grass carp fish 29
 Stethorus punctillum 15
 Sticky adhesive 4, 11, 13, 14, 17, 20, 25, 26
 Sticky barrier 3, 8
 Streptomyces griseoviridis 24
 Streptomyces lydicus 24
 Streptomyces antibiotic 23
 Subterfuge 19
 Sulfuramid bait 19
 Sulfuramid bait station 10
 Sulfuramid Bait Stations: 3
 Sunlight Barrier (aquatic weeds) 29
 Surround (kaolin) 15, 19
 Sweep nets 22
 Symphorobius sanctus 15
 Syringe for nematode injection 6

T

Tannic acid 16
 Technu 29
 Teflon Barrier 3, 10
 Temperature monitor 22
 Tenodera aridifolia sinensis 22
 Termidor 18
 Terminate 19
 Termite Baits 19
 Termite dogs 18
 Termite Sniffer 18
 Termite Tracker 18
 Tetanocera spp. 18
 Thistle Monster 29
 Tick Management System 20
 TickPick 19
 Tiller/mulcher/mower 29
 Tool for Injecting Wall Voids 23
 Trained dogs 7, 18
 Training Video 21
 Traps 4, 6, 8, 10, 11, 12, 13, 14, 15, 17, 18, 19, 20, 21
 For apple maggot 8, 12
 For Asian lady beetle 6
 For codling moth 8
 For Japanese beetle 5
 For pepper weevil 5
 For stored product insects 5
 for vine weevil 6
 Glue board trap 10, 27
 Light traps 4, 6, 12, 20
 Live traps 27, 28
 Solar fly traps 12
 Sticky light trap 11

Sticky trap/tape 4, 8, 12, 14, 17, 19, 20
 Trap & attractant 10
 Traps for gophers 26
 Traps for moles 26
 Treatment for Birdseed 28
 Tree wrap 3, 8, 26, 27
 Trichoderma harzianum 23
 Trichoderma sp 23
 Trichogramma brassicae: 9
 Trichogramma carverae 9
 Trichogramma dendrolimi 9
 Trichogramma evanescens 9
 Trichogramma minutum 9
 Trichogramma ostrini: 9
 Trichogramma pretiosum 9
 Trichogramma spp. 9
 Trichogrammatoidea bactrae 9
 Trichomalopsis sp. 12
 Trichosirocalus horridus 30
 Typhlodromus spp. 16
 Turf aerator 24
 Turf Biocontrol 25
 Turf Diseases 24
 Turfshield 24
 Tweezers 19
 Typhlodromus athiasae 16
 Typhlodromus limoni: 16
 Tyria jacobaeae 30

U

Urolepis rufipes 12
 Urophora affinis 30
 Urophora cardui 30
 Urophora quadricornis 30
 Urophora sirunaseva 30

V

Vacuum 3, 7
 Vacuums 10, 11, 15, 22
 Varroa Mite Trap 21
 Vectobac 16
 Verticillium lecanii 19
 Verticillium lecanii fungus 4, 20
 Videos introducing IPM 21
 Vinegar (20%) 30
 Vine weevil trap 6
 Virus detection kit 23

W

Warfarin 28
 Wasp/bee sting medication 21
 Water bacteria analysis kits 22
 Weather monitor 22, 23
 Weed control fabric/plastic
 Infra-red transmitting 29
 Weed Wrench 29
 Weedeater, weedhound 29
 Weeder geese 30
 Weeding animals 29
 Weed biocontrols 30
 Weeding Chickens 30
 Weeding tools 29
 Wheat 22
 Wildlife removal/relocation services 27, 28

X

Xanthine cockroach bait 10
 Xylocoris flavipes 6, 9

Z

Zinc phosphide 28



Subscribe!

Yes! I want to become a member of the Bio-Integral Resource Center and receive a free subscription to:

The IPM Practitioner

Enclosed is my check for:

☐ \$60/year, Institutions/
Businesses/Libraries

☐ \$35/year, Individual

*** SPECIAL DISCOUNT OFFER**
 Receive subscriptions to both *The IPM Practitioner* and the *Common Sense Pest Control Quarterly* for:

☐ \$85/year, Institutions/
Businesses/Libraries

☐ \$55/year, Individual

Name

Address

City

State Zip

*Canadian members, add \$10 postage;
 Other foreign, add \$20/air. Foreign orders must be paid in U.S. \$ or on an international money order.*

**Enclose your check
and mail to:**

BIRC
 PO Box 7414
 Berkeley, CA 94707

Planning to change your address?

If so, please notify us six weeks in advance in order not to miss any issues of *The IPM Practitioner*. Just send a label with a copy of your new address, and we'll do the rest! Thanks.

EcoWise Certified



Hire an EcoWise Certified Professional and Ask for EcoWise Service

EcoWise Certified Pest Management Professionals

- Emphasize prevention, exclusion, and non-chemical methods
- Do not apply perimeter sprays that could pollute water
 - Minimize pesticide applications
- Use baits and reduced risk pesticides

**To find a company, go to the EcoWise Certified website
www.ecowisecertified.org**

Companies and professionals who need certification contact
EcoWise Certified, 510-524-2567 or email birc@igc.org
An Online Certification Course is available on the BIRC website,
www.birc.org. Just use the link www.birc.org/EcoWiseCertified.htm

**An EcoWise Certified Technician uses Low Impact IPM Methods such as Baits
and Traps for Cockroach Management. *Photos courtesy Pestec IPM Providers***



Pest control solutions you can trust

NATURALLY

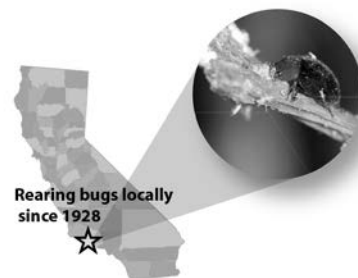


Beneficial Insectary

PROVIDING A NATURAL BALANCE IN PEST MANAGEMENT

insectary.com | 1 (800) 477-3715

Locally Grown Predators & Parasites



Our predators and parasites
have provided growers with
Effective, Economical
control of pests since 1928

ASSOCIATES

Integrated Pest Management



INSECTARY

Beneficial Organisms



JH Biotech, Inc.

Biotechnologies For Safer Agriculture

Protect Your Plants & Profit

► FOSPHITE®

Systemic Fungicide

► BIOREPEL®

Natural Insect Repellent

► WEED ZAP®

All Natural Organic Herbicide

► ANT OUT®

Botanical Insecticide

► PEST OUT®

All Natural Pesticide

► MILDEW CURE®

All Natural Fungicide

Tel: 1-800-428-3493

Fax: 805-650-8942

www.jhbiotech.com

Want Long-Term Pigeon Control?



OvoControl® P

"BIRTH CONTROL" FOR BIRDS

www.ovocontrol.com
or 858.759.8012

BIRC Website

Need a Back Issue?
An Online Course?

Want to Join BIRC?

Need Help with a Pest?
Use Ask the Expert

www.birc.org

COMMON SENSE PEST CONTROL QUARTERLY

Protecting Raptors from Rodenticides



The IPM Practitioner

Pesticides and Honey Bee Death and Decline



In This Issue	
Honey Bees	5
Blackberry Chalkers	9
ESA Report	10
Weather News	11
Calendar	12

Crop
Production
Services



A Fatal Attraction For Sucking Insects



Sucking insects are wildly attracted to the color yellow. HOPPERFINDER is coated with a non-drying, water resistant adhesive and holds pests until they die. HOPPERFINDER is an excellent IPM tool that offers these advantages:

- Attracts leafhoppers, aphids, white flies and other insects.
- Compatible with organic and IPM practices.
- Cost effective.
- No Pesticides – Non-toxic to the environment.

For more information call (800) 829-7671 or visit our website at www.cpsagu.com

ARBICO organics

Grow With Us, Naturally!

- Providing Custom IPM Solutions for Over 30 Years.
- Beneficial Insects & Organisms.
- Extensive Selection of Natural Fertilizers, Weed & Disease Control, Traps & More!
- Professional Discounts.

Contact Us Today!

1-800-827-2847
www.arbico-organics.com
10831 N. Mavinee Dr. STE 185
Oro Valley, AZ 85737



Best in class.

Only REGALIA® will make you go back to the blackboard when choosing your best fungicide program. It offers the same top-notch disease control as old-school chemistry, but with all the benefits of a new-school biological solution. Soil or foliar – it all adds up to best-in-class for fruit, nuts and vegetables. See your retailer today. Go to www.marronebio.com/regalia for more.



Always read and follow label directions. ©2013 Marrone Bio Innovations, Inc. All rights reserved. Regalia, the Regalia logo, Marrone Bio Innovations, and the Marrone Bio Innovations logo are registered trademarks of Marrone Bio Innovations, Inc. U.S. Patent No. 4,863,734 and 5,989,429. Additional patents pending. 03/13-19203

CLIMBUP[®]

INSECT INTERCEPTOR

DETECTION STANDARD AGAINST WHICH OTHERS ARE MEASURED

- people are the best bed bug bait...use under furniture legs where people are sleeping
- early, reliable detection of bed bugs
- all stages are clearly visible against the white surface
- talc-coated interior makes surface too slick to climb out...it is not acting as a pesticide
- easy to clean and easy to retail
- bed bugs are attracted to the fibrous exterior surface to climb up
- tells if bed bugs are going to or coming from furniture
- aids in protecting furniture from reinfestation
- can be reused for months
- made in USA
- patent pending



Manufactured by: **Susan McKnight, Inc.**
P.O. Box 11406 Memphis, TN 38111
www.insect-interceptor.com • susan@insect-interceptor.com
901-848-3831

INSECT MONITORING SUPPLIES

- | | |
|--|--|
| * Bee-Scent natural pollination enhancer | * NoMate CM Spirals |
| * Mating Disruption | * Cidetrak CM |
| * Isomate - CM, CM/LR, CM/OFM, OFM, PTB | * Virosoft ^{CP4} |
| * Checkmate Sprayable OFM | * Beneficial Fly Parasites |
| * Puffer CM | * Insect traps and pheromones for crops and orchards |
| | * Magnifiers, sweep nets, ground cloths |



10220 E CHURCH RD
VESTABURG, MI 48891
800-235-0285
FAX: 989-268-5311



www.greatlakesipm.com
E-mail: glipm@greatlakesipm.com

"Pest Controls Mother Nature Would Use"
NATURE'S CONTROL

Specializing in Beneficial Insects and Organic Pest Controls for Over 20 Years!

- Ladybugs, Spider Mite Predators, Nematodes, Lacewings, and many more "Hired Bugs".
- Mighty Myco Mycorrhizae.
- Magnifiers, Yellow & Blue Traps.
- Quantity Discounts.
- Orders Arrive in 1-2 Days.
- Live Delivery **Guaranteed!**
- Friendly, Knowledgeable Staff.
- Check our website for the distributor nearest you, or call for your free "Hired Bugs" brochure.

NATURE'S CONTROL
PHONE: (541) 245-6033
FAX: (800) 698-6250
P.O. BOX 35
MEDFORD, OR 97501
www.naturescontrol.com

- **PredaLure**
Controlled release. Attracts predators/parasites to crop for control of aphids, mites, leafhopper, many others.
- **Honey Bee Lure**
Controlled release dispenser attracts bees for increased pollination. No spray. No mess.
- **Mycostop** Biofungicide
- **Pentra-Bark** Surfactant
- **Agri-Fos** Fungicide
- **Insect Traps**
Stink Bugs, Oriental Beetles, Onion Maggot, Thrips, more.
- **Cucumber Beetle Trap**
- **Mycorrhiza**
High Potency. Undiluted. University tested.

AGBIO

887-268-2020
Fax 303-469-9598
www.agbio-inc.com

Since 1990

Victor®

Kill & Seal

Mouse Trap



Model M265P

NEVER TOUCH, SEE, OR SMELL A DEAD MOUSE AGAIN!

Patented
Sealing

Seals in Ticks
and Fleas.

Seals in Urine,
Blood and
Odor.

Powerful Kill
Bar.

- ▶ Kills quickly and humanely.
- ▶ Ideal for sensitive facilities: schools, daycares, healthcare, and offices.
- ▶ Eliminates unscheduled service calls to remove mouse.

WWW.WOODSTREAMPRO.COM

 woodstream

***Every gardener, landscape professional, and small farmer
in America should have a copy of this book.***

- Completely new edition of the classic 1995 version
- 200 photographs and 100 drawings
- Seasoned authors with over 100 years combined experience
- In-depth chapter on Integrated Pest Management (IPM)
- Includes a natural approach to pest management
- The guidebook to planning and creating a safer garden through sustainable and Integrated Pest Management (IPM) practices.

The Gardener's Guide to Common-Sense Pest Control

William Olkowski, Sheila Daar, Helga Olkowski

Coauthored and edited by Stephen Ash

Paperback

EAN: 9781600855009, Product #071424

8 x 10, 400 pages, 200 full-color photographs, 100 drawings

\$24.95 U.S., \$28.95 Can.



The Taunton Press
Inspiration for hands-on living®



Available wherever books are sold
and at www.tauntonstore.com/pest

PUT THE POWER IN YOUR HANDS WITH THE ELECTRO-GUN FOR TERMITE CONTROL



**SUSAN FORTUNA, PRESIDENT,
SAYS TEAM UP WITH THE LADY
WITH THE GUN**

CA DPR REG #
:55850-50001-AA



Celebrating 34 years of excellence!

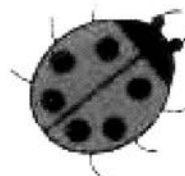
The Discreet Treat

One of the tools of the trade.

The Power of: Higher Profits
Versatility
Greater Customer Satisfaction
IPM & Green Technology

Etex Ltd.
(800) 543-5651
www.etex-ltd.com
egunlady@etex-ltd.com
Established February 1979

PESTEC



Specialists in Structural IPM

- Consulting
 - Exclusion • Sanitation • Steam • Vacuuming • Baits
- Call us at 925/757-2945; www.ipmprovider.com



NEW STORGARD®

QUICK-CHANGE™

BROAD SPECTRUM™ MOTH & BEETLE MONITORING SYSTEMS

QUICK-CHANGE™ ULTRA-COMBI™ **DOME™** Trap



The NEW QUICK-CHANGE™ DOME™ has been behaviorally modified and precision engineered to retain the best features of the original DOME. In fact, every key feature of the original, highly-successful, DOME has been revisited to significantly improve key structural and behavioral features, "synergized" with a NEW QUICK-CHANGE™ SNUGFIT™ lure and trapping system. Behavioral engineering has been used to "synergize" pheromones, kairomones and trap design to optimize attractiveness and capture capabilities.

QUICK-CHANGE™ ULTRA-COMBI™ **Moth & Beetle** Adhesive-based Traps

Indianmeal Moth, Mediterranean Flour Moth, Raisin Moth, Tobacco Moth, Almond Moth, Cigarette Beetle, Khapra/Warehouse Beetles, and many other flying species.



Contact your supplier and order now!

Visit our website: www.treco.com or call 1-866-785-1313.



TRÉCÉ
INCORPORATED
INSECT PHEROMONE & KAIROMONE SYSTEMS
Your Edge - And Ours - Is Knowledge.

2013 Pherocon® PRODUCT FAMILY FROM TRÉCÉ®



NEW TRAPS:

TRAPS 1 & 2

New Features

- Newly engineered for weatherability.
- Ultra-fast assembly (twenty times faster than standard).
- Fast to count.
- Simple to replace.
- Calibrated to standard.
- Glue free assembly.

Benefits

- Resists high winds, rain, and sprinklers.
- Ultra-Labor saving and super easy to use.
- Use standard numbers for treatment decisions.
- Greater convenience.

TRAPS 3 & 4

New Features

- Glue-free assembly
- Highly visual template.

Benefits

- Lower monitoring time.
- Lower monitoring cost.
- Higher convenience.

TRAP 5

New Features

- All new monitoring system for Diabrotica pests of fruit.

Benefits

- Early detection: 24hrs, 7 days a week.
- Lower detection costs/with improved control.

NEW LURES:

New Features

Lure: 6

- Pherocon standard lures: exceptional purity/longer field life.

Lure: 7

- New Long-Life™ (L₂) Lures: 12, 14, 16 weeks for CM, OFM, PTB

Lure: 8

- MegaLure: The best L₂ available for mating disruption 10-12 week performance.

Lure: 9

- Pherocon low amplitude lures for OBLR-W and PL

NEW LURES:

Benefits:

- Longer lasting/higher performance standard lures.
- Fewer changes/lower labor cost/fewer mistakes with L₂ lures and MegaLure.
- Standard numbers for treatment decisions with CML₂ and MegaLure.
- Low amplitude lures: lower labor cost and increase performance.



TRÉCÉ® Incorporated, P.O. Box 129, Adair, Oklahoma 74330 USA
Telephone: 918-785-3061 • Facsimile: 918-785-3063 • E-mail: custserv@earthlink.net

© 1999 TRÉCÉ Incorporated

TRÉCÉ®, PHEROCON®, STORGARD®, CIDETRAK®, and PINDOWN® are Registered Trademarks of TRÉCÉ Incorporated, Adair, OK USA

® = registered trademark and ™ = trademark of TRÉCÉ Incorporated, Adair, OK USA; www.trece.com

The Ultimate in
Biological Pest Control
Guardian Nematodes™
Lawn Patrol™

(*Steinernema* spp. & *Heterorhabditis* spp. beneficial nematodes)

Application rate: 1 million per 2,000/3,000 sq.ft. of greenhouse
24 million per acre

Pests: Controls over 250 root zone pests including:

- | | | |
|----------------------|--------------------------|-------------------------|
| * Cutworms | * Fungus gnats | * Corn rootworm |
| * Black vine weevils | * White grubs | * Thrips |
| * Sod webworms | * Strawberry root weevil | * Japanese beetle grubs |

Other beneficial items: Encarsia formosa, Phytoseiulus persimilis, Mesoseiulus longipes, Neoseiulus californicus, Aphidoletes aphidimyza, Aphidius, Amblyseius cucumeris, Chrysopa carnea (lacewings), Hippodamia convergens (ladybugs), Nosema locustae (Nolo Bait), Orius, Mealybug predators, etc. Sticky ribbons, Sticky cards, Insect Screens and much more!



Call TOLL-FREE 1-800-634-6362
for a FREE Catalog

HYDRO-GARDENS, INC.
Your Total Greenhouse Supplier!
<http://www.hydro-gardens.com>
email: hgi@hydro-gardens.com

P.O. Box 25845, Colorado Springs, CO 80936 * FAX 719-495-2266



**Serving entomology for
more than 60 years**

BioQuip offers a wide selection of pest management equipment including traps, protective clothing, videos, slides, software, books, and more. We also provide thousands of other products and books for entomology and related sciences.

Contact us to receive our 214-page CD catalog at no charge.

Visit our web site to view monthly product and book specials, and new products.



BioQuip Products

2321 Gladwick St.
Rancho Dominguez, CA 90220

Ph: (310) 667-8800

Fax: (310) 667-8808

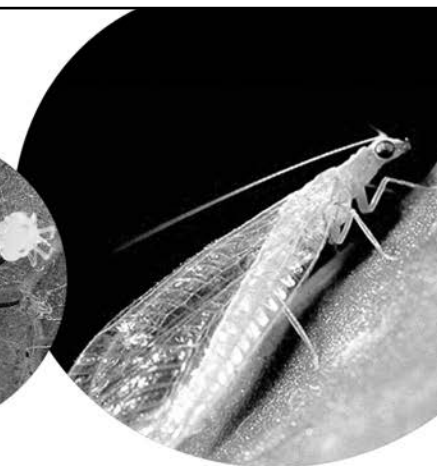
Email: bqinfo@bioquip.com

www.bioquip.com

MEET THE GOOD BUGS

SAY GOODBYE TO

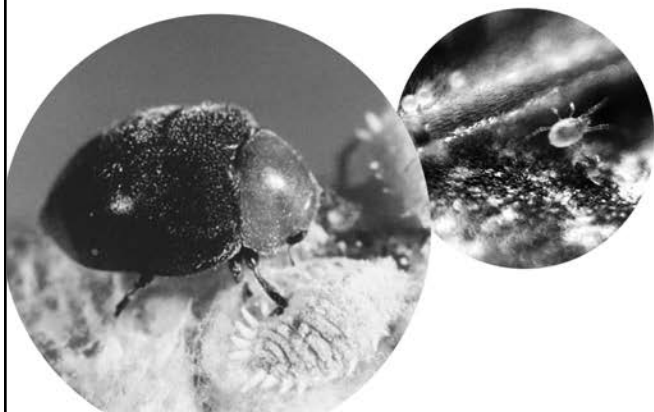
whiteflies, thrips, aphids, spider mites, mealybugs, scale, soil pests and most varieties of pest moth eggs & caterpillars



Since 1992 we've been setting the standard for natural pest control and supplying solutions to people in horticulture, agriculture, and even to those who toil in the garden. Are you finally ready to let the insects take care of their own? *Good bugs rule!*

greenmethods
a balanced approach to better pest management

greenmethods.com | 1 (800) 477-3715



Bio-Integral Resource Center

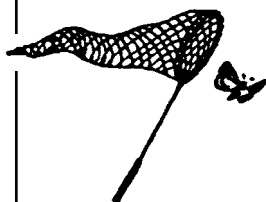
B • I • R • C

P.O. Box 7414, Berkeley, California 94707

ADDRESS SERVICE REQUESTED

NON-PROFIT ORG.
U.S. POSTAGE
PAID
Berkeley, CA
Permit #442

Please renew your membership and help support BIRC. THANK YOU!



Printed with vegetable-based inks
On Processed Chlorine-free paper
100% post-Consumer Waste content

Classified Ads

PRODUCTS



Beneficial Nematode Products for:
Lawn & Garden Insects
Greenhouses & Horticultural Insects
Termites, German Roaches
Turf Insects
Bulk Nematodes Available

BioLogic

For full information see
www.biologicco.com

PO Box 177
Willow Hill, PA 17271

Tel. 717-349-2789

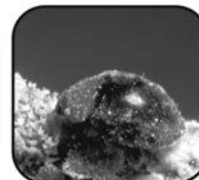
PRODUCTS



RINCON-VITOVA
INSECTARIES, INC.
Biological Solutions Since 1950



Aphid Control



Mealybug Control



Fly Control

800-248-BUGS - 805-643-5407 - Ventura, CA - rinconvitova.com

Canadian Producer of Nematodes



BENEFICIAL NEMATODES
Canadian and "Organic"

BENEFICIAL INSECTS
Distributor for Applied Bionomics
Largest Variety Available

Monitoring Tools and Traps

3737 Netherby Road, Stevensville, ON, L0S 1S0
905-382-2904; 905-382-4418(fax)
nic@niagara.com

www.naturalinsectcontrol.com



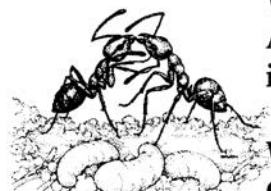
3244 Gravenstein Hwy. N
Sebastopol, CA 95472

P.O. Box 460, Graton, CA 95444
(707) 823-9125 • FAX (707) 823-1734
info@harmonyfarm.com

...for better growing
from the ground up!

Organic Pest Control

- Beneficial Insects/Nematodes
- Takedown/Spinosad/Neem oil
- Organocide Fungicide/Insecticide
- Insecticidal Soap
- GF 120 Fruit Fly Bait
- JMS Stylet Oil



Want to Order a Back Issue?
A BIRC Publications Catalog
is Online at www.birc.org

Want to Advertise?
Call 510/524-2567 or
Email birc@igc.org

Garlic Barrier
Aphids, Spider Mites, and Earwigs
are quickly controlled by OMRI listed
Garlic Barrier.

See our website:
www.garlicbarrier.com

CLASSIFIED AD RATES—1x rate: \$1 per word. 2x-3x: 80¢ per word. 4x or more: 80¢ per word. Write ad, calculate the cost. **BUSINESS CARD AD RATES** (2 x 3.5")—1x rate: \$55. 2x-3x: \$45 each time. 4x or more \$40 each time. Business card ads must be camera-ready; or BIRC will typeset your ad for \$40. **ALL ADS MUST BE PREPAID.** Send ads and payment to **IPMP Classified Ads**, PO Box 7414, Berkeley, CA 94707. Ads must be received five weeks prior to date of issue in which it is to appear. We reserve the right to refuse materials we feel are inappropriate.