

The IPM Practitioner

Monitoring the Field of Pest Management

Volume XXXII, Number 11/12, November/December 2010

32nd Year
of Publication

2012 Directory of Least-Toxic Pest Control Products

The 2012 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-

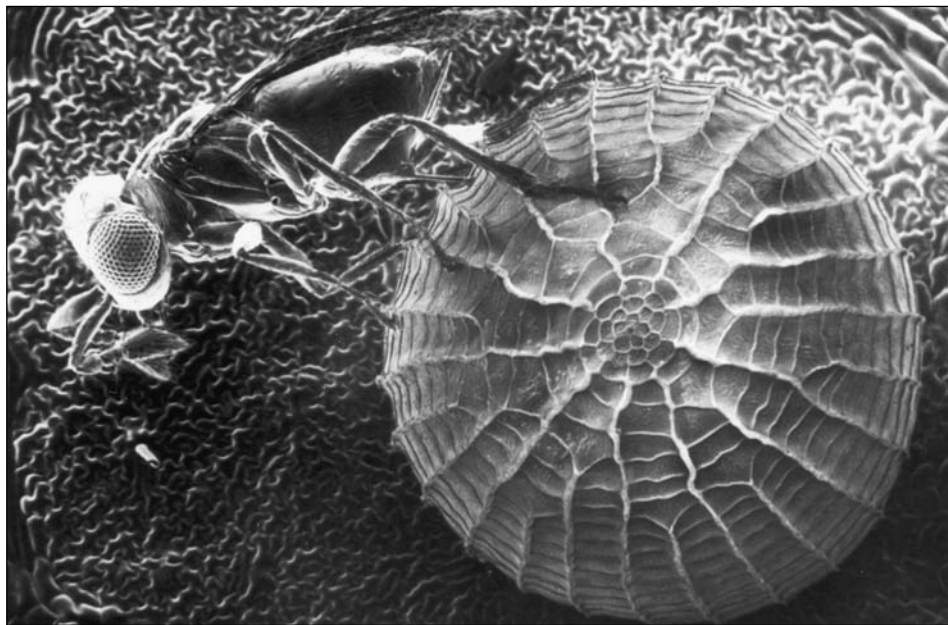


Photo courtesy of the USDA

A *Trichogramma* sp. wasp is laying her egg inside that of a pest caterpillar. *Trichogramma* parasitoids and other commercially available biocontrols, as well as traps, baits, pheromones, and many other products needed for 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 in 2010, 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.

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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

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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.
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Change of Address

When writing to request a change of address, please send a copy of a recent address label.

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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 who 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.

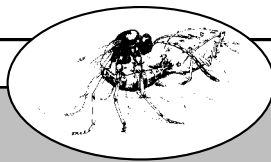
If the product you are seeking is not in the Index, you must know how the product is used, and for which pests, in order to immediately find the

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):

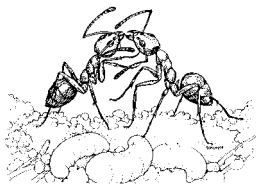
Heitman Labs (Solar Ant Charmer)

Teflon Barrier:

Check local hardware store in plumbing supplies

Tree Wrap:

Olson (Stiky Tree Guards) • Peaceful Valley



Biological Controls

Insect-Attacking Nematodes:

Mixture of species (for fire ant): Gulf Coast

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)

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

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 Perimeter Bait Station:

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

Sulfuramid 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)

With pyrethrin:

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

Pyrethrin:

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

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

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, Peaceful Valley (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 • The Green Spot • 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) • The Green Spot (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) • The Green Spot • 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 • The Green Spot • 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 • The Green Spot • 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 • The Green Spot • M&R Durango • Arbico

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

Aphidius sp.: Biological Crop • The Green Spot • Biobest Canada

Episyrphus balteatus: Flora • Katz

Lysiphlebus testaceipes: Flora • Katz

Praon myzophagum: Biowise

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 • Peaceful Valley • Rincon-Vitova • Sautter & Stepper • The Green Spot • W. Neudorff • Flora • BioBee • Katz • Biobest Canada • Ecosolutions

Lacewings:

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

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 • The Green Spot • American Insectaries

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

Mallada signata: Bugs for Bugs

Macromus variegatus: Natural Insect Control

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 • Smith

& Hawken • The Green Spot • The Ladybug Company • Ladybug Farms • Western Farm • EcoSolutions • Applied Bionomics

Lady beetle, *Coleomegilla maculata*: Florikan

Lady beetle, *Harmonia axyridis*: Biobest, Koppert, Rincon Vitova, The Green Spot, Bioplanet

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

Lady beetle, *Pseudoscyrnus tsugae* (for wooly hemlock adelgid): The Green Spot

Predatory bugs:

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

Big-eyed bug, *Geocoris punctipes*: Biotactics • Rincon Vitova • The Green Spot

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 • Peaceful Valley • Syngenta Bioline

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

Mirid bug, *Deraeocoris brevis*: Applied Bionomics

Least-Toxic Chemical Controls

Cinnamic Aldehyde:

Whitmire, Peaceful Valley (Cinnamite)

Cinnamon Oil, Garlic, Cottonseed Oil:

JH BioTech, Harmony (GC-Mite) • Safer Gro

Aphid Alarm Pheromone:

Springstar • 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, Peaceful Valley (Volck) • Sun, Gardens Alive!, Harmony, Peaceful Valley, Charley's (Sunspray) • The Green Spot • Florikan (Target Oil) • Gardens Alive (Eco-Oil) • Summit

Highly refined oil (from plants):

Stoller, Peaceful Valley (Natur'l Oil 93% soybean) • ARBICO (Spreadall 93% cottonseed) • Gardens Alive • Planet Natural, Harmony, Monterey, Peaceful Valley (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) • Peaceful Valley (K-Neem) • The Green Spot • St. Gabriel (Sharpshooter) • Certis (DES-X)

With pyrethrin:

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

Neem Products:

Certis, Harmony (Azatin) • Woodstream, Harmony, Peaceful Valley (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)

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)

Pyrethrum Powder:

Planet Natural • Peaceful Valley • Nichols Garden

Repellent Garlic Spray:

Garlic Research Labs, Chemical-Free, Planet Natural, (Garlic Barrier) • Soil Technologies (Garlic Gard) • The Green Spot • 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) • The Green Spot • St. Gabriel

Sabadilla Powder:

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

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)

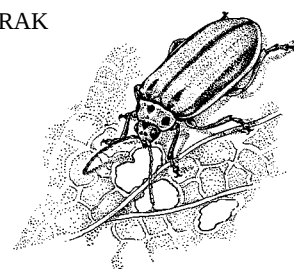
For forestry insects:

Phero Tech (Phero Tech Lures)

For Japanese beetle:

Trécé, Gardens Alive, Great Lakes, Olson, Harmony • Phero Tech • 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) (Sanitrap for cigarette beetle) • Insects Ltd.

Physical Controls

Controlled Atmosphere System (for stored grains):

The Aerogen • Air Products (Prism System)

Row Covers:

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

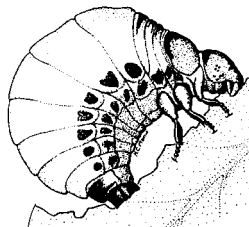
Spiked lawn aerator sandals

(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

Attractant for soldier bugs that attack pest beetles:

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

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 • Nematec • 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
Steinernema riobravis: 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) • Plant Health Care

***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

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
Catalaccus grandis (for boll weevil): Rincon-Vitova
Catalaccus hunteri (for pepper weevil): Rincon-Vitova
Pediobius foveolatus (for Mexican bean beetle): ARBICO • IPM Labs

Predators:

spined soldier bug, *Podisus maculiventris* (for CO potato beetle): ARBICO • Bug Factory • Rincon-Vitova • Natural Insect Control
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 (EcoSide, EcoSense) • Gowan (AZA) • Bioworks (Molt-X)

Nicotine Analog (for beetle grubs):

Bayer Agricultural (imidacloprid, Admire, Merit)

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 • Peaceful Valley • Planet Natural

Rotenone:

Bonide • Peaceful Valley

Sabadilla:

Dunhill, 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) • Permachink (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)

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

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)

Endophytic tall fescue (repels billbugs):

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

Biological Controls

Attractant for soldier bugs that attack pest bugs:

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

Microbial Insecticides:

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:

Anaphes iole (for lygus bug):

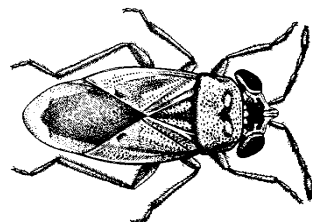
The Green Spot

• Rincon-Vitova • Beneficial Insectary

Predators:

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

predatory bug, *Deraeocoris brevis* (for lygus bug): The Green Spot • 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 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)

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)

Sabadilla:

Planet Natural • Peaceful Valley • Dunhill, 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

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 Dome)

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

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 (Stiky 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)

Endophytic Tall Fescue (repels caterpillars):

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

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:

The Green Spot • Natural Insect Control • Peaceful Valley • Planet Natural

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 riobravus: Harmony • Becker Underwood

Syringes for nematode injection (for borers):

Gardens Alive • Natural Insect Control

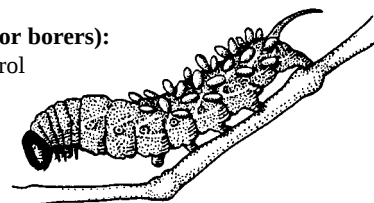
Microbial Feeding Stimulant:

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 marginiventris (for gypsy moth, stored product moth):

Rincon Vitova • The Green Spot

Cotesia plutellae (for diamondback moth): ARBICO • Biofac • Rincon Vitova

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 • The Green Spot

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 • The Green Spot

Trichogramma ostriniae: 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 • The Green Spot • 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): The Green Spot

Predators:

big-eyed bug, *Geocoris punctipes*: Rincon-Vitova • California

Bioworks • The Green Spot

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

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

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)

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

Neem Products:

Certis, Planet Natural, The Green Spot (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)

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) • Johnny's, Peaceful Valley (Pyrenone) • Monterey, Harmony (Bug-Buster-O, w/o PBO) • Peaceful Valley (Py-Rin, w/o PBO) • MGK, Peaceful, Harmony (PyGanic)

Pyrethrum powder:

Nichol's Garden • Harmony • Peaceful Valley

Rotenone:

Bonide • Peaceful Valley

Sabadilla:

Dunhill, 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) • Peaceful Valley • 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)

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

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!, Peaceful Valley (Precor 2000)

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), Peaceful Valley, 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

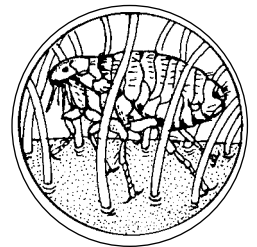
Cone-Type Solar Traps:

ARBICO • Great Lakes (Musca Terminator) • Olson (Stiky) •
Tanglefoot (Aeroxon) • Great Lakes • The Green Spot • 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

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) • Waterbury (pheromone and light) • 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) • Western Farm (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 • Nematec • 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 • The Green Spot • 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 • The Green Spot • PNE • Spalding

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

Spalangia cameroni: Kunafin • PNE • Spalding • Arbico

Spalangia gemini: Kunafin • PNE

Spalangia corana: Biofac

Spalangia endius: Kunafin • Natural Pest Controls • Rincon-Vitova • The Green Spot • 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

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)

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) • Sutterra (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

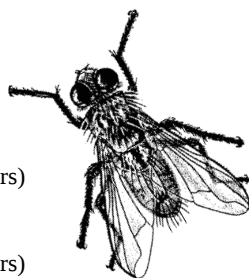
Sticky trap/tape:

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 (Sticky Stuff, Sticky 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 • Nematec • 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 riobravis: 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, *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 • The Green Spot • Nature's Control • Evergreen • Peaceful Valley • Eco Solutions

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

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)

Pyrethrin:

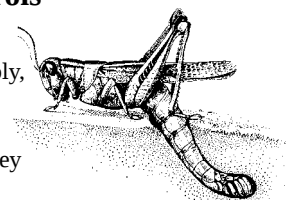
Whitmire (PT 175 microencapsulated, PT-565, PT-505 XLO) • Peaceful Valley (Py-Rin, w/o PBO) • Monterey, Harmony (Bug Buster O, w/o PBO) • MGK, Harmony (PyGanic)

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 riobravis: 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, The Green Spot, 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 • Dunhill, 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 • The Green Spot •
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 • The Green Spot • 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, Peaceful Valley (Avid)

Insecticidal Oil:

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

Neem Products:

Certis, Planet Natural, Harmony, Peaceful Valley, The Green Spot
(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) • The Green Spot • St. Gabriel

LICE

Identification & Monitoring

Head lice detection kit:

Del (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:

Del (Bare Liquid, Lice, Tick & Flea Spray)

Pyrethrin shampoo, for head lice: Del (Pronto) • Hogil
Pharmaceuticals (A-200) • Pfizer (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:

Anagyrus fusciventris: Bio Pre

Anagyrus pseudococchi: 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

Leptomastix epona: Bio Pre

Pseudaphycus flavidulus: Bio Pre

Pseudaphycus maculipennis: Bio Pre

Predators:

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

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 • Peaceful Valley • The Green Spot • Western Farm • 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

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, The Green Spot (Sunspray) • The Green Spot • Gardens Alive (Eco-Oil) • Summit

Highly refined seed oil:

Stoller, Peaceful Valley

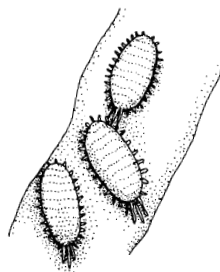
(Natur'l Oil, 93% soybean)

• 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 • The Green Spot • Sterling Insectary • ARBICO

• EcoSolutions

Predatory bugs:

Big-eyed bug, *Geocoris* sp.: Rincon-Vitova • The Green Spot

Orius insidiosus: Syngenta Bioline • Gartenbau • Gartnerei •

International Technology • IPM Labs • Koppert • Nature's Control •

The Bug Store • ARBICO

Orius laevigatus: Koppert • Biological Crop

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

Orius spp.: Biobest • Bioplanet • Bio Pre • Duclos • Natural Insect Control • Peaceful Valley • Rincon-Vitova

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 • The Green Spot • Nature's Control • ARBICO •

EcoSolutions

Predatory mites:

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

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 • Peaceful

Valley • Rincon-Vitova • Western Farm • The Green Spot • Syngenta

Bioline • FAR

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 • Peaceful Valley • Rincon-Vitova • W. Neudorff • Bio Bee

Amblyseius degenerans (for mites): The Green Spot • Evergreen •

Syngenta Bioline

Amblyseius fallacis (for two-spotted spider mite, European red mite):

Applied Bionomics • Evergreen • IPM Labs • Natural Insect Control •

The Green Spot • Biotactics • ARBICO

Galendromus annectans (for perseia 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 • The Green Spot
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 • The Green Spot • Western Farm
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 • The Green Spot • EcoSolutions • Flora • Katz

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

Cinnamon oil, garlic extract:

JH Biotech, Safer Gro, Harmony (GC Mite)

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) • The Green Spot • 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)

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 • The Green Spot • 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, The Green Spot, 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, Smith & Hawken, 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) • Neem America (NeemRx)

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)

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 • Prophyta • Certis (MeloCon)

Experimental Fungus: International Mycological Institute

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

Botanical nematicide: 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:

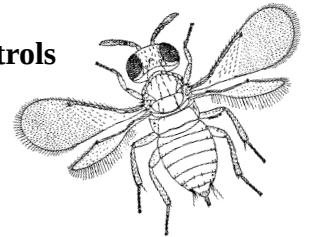
Hydro-Gardens (Fly Barr)

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 • Peaceful Valley • Rincon-Vitova • Sespe Creek • Western

Farm • The Green Spot • 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 • The Green Spot • Charley's • Harmony • St. Gabriel

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:

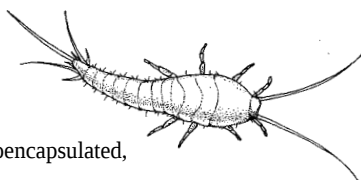
Bayer ES (Kicker, Drione)

• Neogen

(Formula 66, LD-44Z)

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

Silica Aerogel: See ANTS



SLUGS AND SNAILS

Physical Controls

Barriers & Exclusion Devices:

Copper snail barrier:

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

• Woodstream, The Green Spot (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

• Peaceful Valley • 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

Microwave for Termite Detection: Cairns, Protec (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/Thermapure (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, Peaceful Valley (Bora-Care, Jecta) • Pole Care (Impel Rods) • Permashink (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: Ensyslex

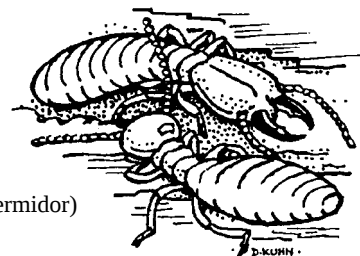
Noviflumuron Sentricon System: Dow AgroSciences

Hydramethylnon Bait: BASF (Subterfuge)

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

Termitrol Monitoring Station: Whitmire

Termite Bait Stations: Peaceful Valley



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 • Western Farm (Blue Plastic) • Phero Tech

Physical Controls

Screening:

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

Kaolin coatings: BASF, Peaceful Valley (Surround)

Traps and Sticky Tape:

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

Biological Controls

Microbials

Beauveria bassiana: Laverlam, Bioworks, Florikan, Harmony (Botanigard) • Troy (Naturalis O, L) • BioWorks (Mycotrol)
Verticillium lecanii: Koppert (Mycotal, Vertalec)

Predators:

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

Predatory bugs:

Deraeocoris brevis: Applied Bionomics • The Green Spot
Macrolophus nubilis: Flora Nutzlinge • Katz
Orius insidiosus: Syngenta Bioline • Koppert • IPM Labs • Gartnerei • Nature's Control • The Green Spot • International Technology • BioBest Canada • Natural Insect Control

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 • Peaceful Valley • Rincon-Vitova • Ecosolutions

Orius tricolor: 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 • The Green Spot • 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 • The Green Spot • BioBest Canada

Amblyseius swirskii: Syngenta Bioline • EcoSolutions

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

Least-Toxic Chemical Controls

Cinnamon Oil, Garlic: JH Biotech, Harmony (GC-Mite)

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:

Dunhill, Harmony (Veratran) • Peaceful Valley



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 (Ex-Tick, *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:

Del (Lice, Tick & Flea Killing Spray)

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 • The Green Spot

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, The Green Spot (Anti-Virus)

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 • Biobest • Hydro-Gardens • Bio Pre • Harmony

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 • Peaceful Valley • Planet Natural • Rincon-Vitova • Sautter & Stepper • W. Neudorff • Zaklad • The Green Spot • 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 • The Green Spot • Natural Insect Control • Koppert • Biological Crop • M&R Durango • Rincon-Vitova

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

Lady beetle, *Delphastus pusillus*

(for sweetpotato or silverleaf white-

fly): Amos Rubin • Biobest •

Biological Crop • Evergreen •

Planet Natural • Hydro-Gardens • International Technology • IPM Labs

• Natural Insect Control • Nature's Control • Rincon-Vitova • Peaceful

Valley • The Green Spot • Organic Control

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

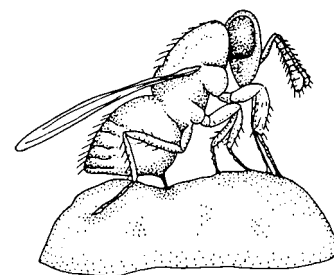
Rincon-Vitova

Predatory mite, *Euseius rubini*: Amos Rubin

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) • The Green Spot •

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

Pyrethrin:

Johnny's, Peaceful Valley (Pyrenone) • AgrEvo, Insects Limited (Kicker) • Peaceful Valley (Py-Rin, w/o PBO) • Monterey, Harmony (Bug Buster-O w/o PBO) • MGK, Harmony, Peaceful (PyGanic)

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)

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)

Essential Oils:

Ecosmart (Bioganic, EcoPCO, EcoIPM)

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

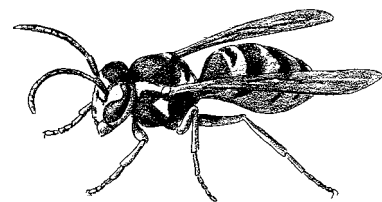
Wasp/Bee Sting Medication:

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

Identification of insect pathogens: Consulting Diagnostic Service

Biological Controls and Supplies

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)

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

Microwave Termite Detectors: Cairn's, High Tech (Termatrac)

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

Termite Sniffers: Professional Equipment

Radon Test Kits: 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: D'Bug Lady • Springstar

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

Plum Curculio Traps: Great Lakes

Varroa Mite Traps: Great Lakes

Artificial Diets:

For lacewings & lady beetles:

Rincon-Vitova • The Ladybug Company • The Green Spot (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 • Green Spot • 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

Predators:

Chinese praying mantid, *Tenodera aridifolia sinensis*: ARBICO • Planet Natural • Natural Insect Control • Natural Pest Controls • Peaceful Valley • Smith & Hawken • A-1 Unique • Nature's Control • The Green Spot

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

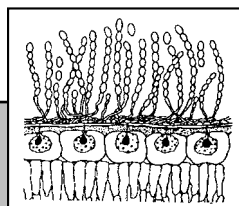
Irrigation Equipment: Harmony

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) • Western Farm

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) • Peaceful Valley • 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

Bacillus pumilis (biofungicide):

AgraQuest (Sonata) • Rincon-Vitova (Activate)

Bacillus subtilis (Serenade, Rhapsody):

AgraQuest, Gardens Alive • BioWorks (Cease)

Coniothyrium minitans (for Sclerotinia): Prophya

Compost tea brewers: Growing Solutions

• SoilSoup • MicroB Brewer • Sustainable

Pseudomonas fluorescens (for fire blight):

NuFarm, Peaceful Valley (Blight Ban)

Pseudomonas solanacearum (non-pathogenic for bacterial wilt control): Natural Plant Protection

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

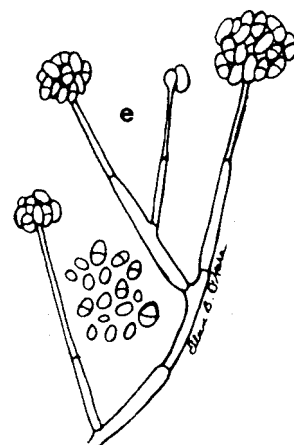
Trichoderma harzianum (for grey mold): Makhteshim-Agan

(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)

Bicarbonate with sticker: Gardener's Supply (Remedy) • Monterey • Peaceful Valley • Bioworks (Milstop) • Harmony, Peaceful Valley (Kaligreen)

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 (GC-3)

Giant Knotweed Extract: Marrone (Regalia)

Copper & Sulfur Fungicides:

Monterey, Harmony (Liqui-Cop) • Monterey (Nordox, Copper Count N, Micronized Sulfur) • Peaceful Valley, The Natural Gardener (Kocide, Bordeaux) • 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 (Oximate, Zero Tol)

Oil and Lime-Sulfur:

The Green Spot • 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)

Borate Spray: Bioworks (Tricon)

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)

Beneficial Microbes: NRG (Activate)

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

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):

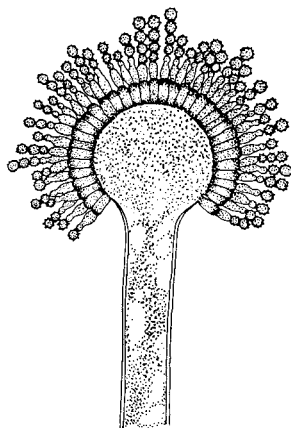
San Jacinto (MicroGro)

Trichoderma harzianum (soil treatment for root pathogens): BioWorks (Rootshield, T-22) • Binab • Borregaard • Harmony

Trichoderma atroviride (cold tolerant): AmPac (Plant Helper)

Trichoderma sp. (for growth promotion): Plant Health Care (Compete)

Disease-Suppressive Seed or Soil Treatment:



Beneficial Microbes: NRG (Slap, Nemaguard)

Bacillus licheniformis: Novozymes (EcoGuard)

Bacillus subtilis: Plant Health Care • 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 • Plant Health Care

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

Endomycorrhizae to increase plant nutrition and help protect against disease:

Glomus sp.(VAM fungus): Bioscientific (Mycorise) • BioOrganic • Mikro-Tek • Plant Health Care (Mycor) • Biological Crop • Natural Fertilizer • Rincon-Vitova • AgBio • Novozymes • Mycorrhizal Applications

Ectomycorrhizae (forest nurseries, urban trees):

Pisolithus tinctorius: Rincon-Vitova • Plant Health Care (Mycortrees) • Plant Revolution • AgBio • Mycorrhizal Applications

Pisolithus, *Rhizopogon* mixtures: Novozymes • 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) • Northeast Organics (Turf Cocktail to stimulate microbes in soil) • NRG (Activate)

Beneficial microorganisms that attack turf pathogens:

Gardener's Supply (Green Magic) • Peaceful Valley (Restore) • Bioworks (Turfmate) • Soil Technologies (BacPack) • Natural Fertilizer • Plant Health Care (Compete) • Novozymes (Green Release) • 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

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)

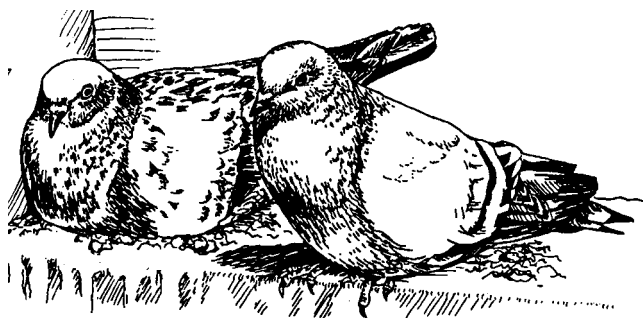
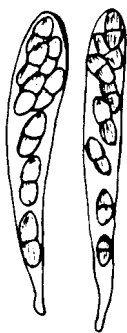
Recycler for Solarization Plastic (Portable Bailer): Kennco

Soil Testing Kits, pH Meters: BioQuip • Ben Meadows • Harmony • Peaceful Valley • Gemplers • Woods End (Soil Respiration)

Soil Testing, Microbials and Minerals: BBC Labs • Soil Foodweb

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: The Green Spot • 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:

Cat Claw (Cat Claw) • 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)

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)



Reflective tape:

Reed-Joseph, W. Atlee (Scare-Away Reflecting Tape) • Wildlife Control, Agricultural Supply, Peaceful Valley (Mylar Silver Strips) • Bird-X (Irri-Tape) • Smith & Hawken (Birds Beware) • 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, The Green Spot *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

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 • Value Garden

Gopher Repellent: Gardens Alive (GopherRelief)

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, Nixalite, Peaceful Valley

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)

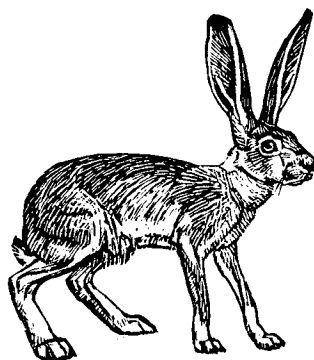
Tree Wrap:

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)



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)

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:

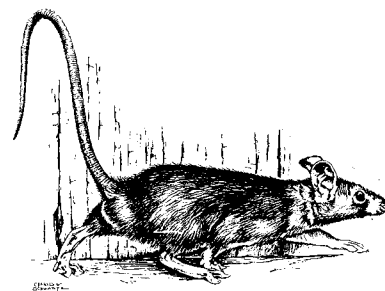
Allen Special Products (Stuf-Fit)

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:

AgriZap • Professional Equipment

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 (Quintox) • Peaceful Valley

Anticoagulants:

Bell (Final, warfarin) • Bell (Contrac, bromadiolone) • Bell (Liqua-Tox II, diphacinone) • Bell (Ditrac, Ditrac Tracking Powder, diphacinone) • Lipha Tech (Maki, bromadiolone) • Lipha Tech (Rozol, chlorphacinone)

Zinc phosphide:

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

SKUNKS

Physical Controls**Catch Poles:**

Tomahawk

Electric Fencing:

Gallagher Power Fence (Gallagher) • Gardener's Supply

Live Traps and Carrying Cages:

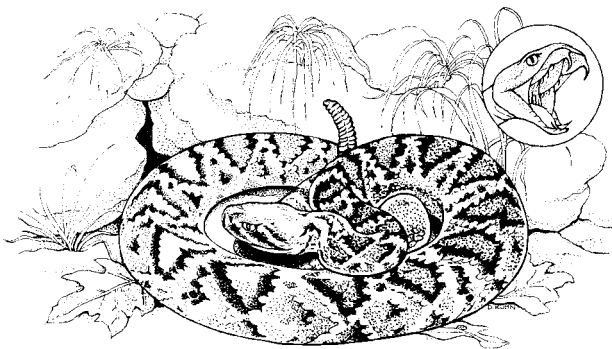
National Live Trap • Safeguard (Safeguard) • Tomahawk • Woodstream, Great Lakes, Harmony, Peaceful Valley, Gardener's Supply (Havahart) • Margo (Tru Catch) • Nichols • Wildlife Management • Natural Insect Control

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

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 (Tygar 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 • Thermal Weed

Heat Treatment (system using boiling water):

Waipuna (Waipuna System) • Sunburst

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

Skin Protectant:

Poison oak/ivy cleanser/prevention:

Smith & Hawken (Tecnu Cleanser) • Masune (Ivy Block, Technu)

• Gempler's (Ivy Shield) • 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)

Biological Controls

Bacterial Biostimulation for Pond Maintenance:

Plant Health Care (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:

Agonopterix alstroemeriana (poison hemlock): BCW

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

Bangasternus orientalis (for yellow starthistle): BCW • Peaceful
Valley

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)

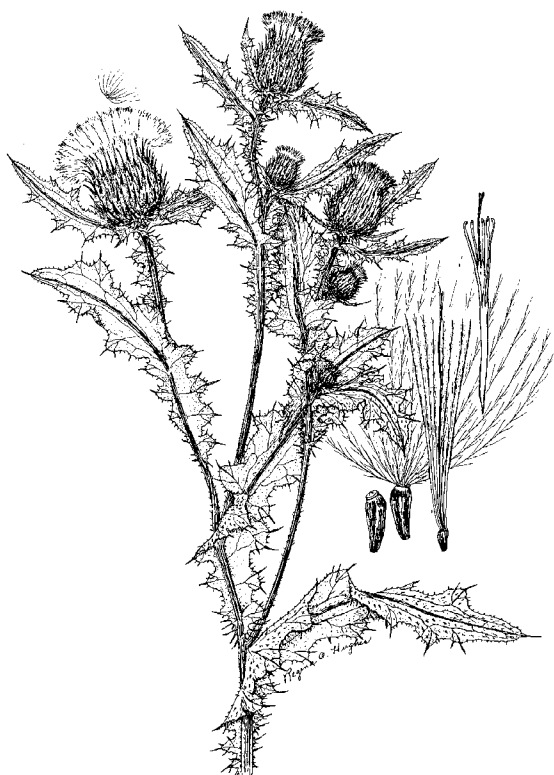
Colletotrichum gloeosporioides (for northern jointvetch, available sporadically): No current supplier

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

Phoma macrostoma (turf weeds): Scotts

Sclerotinia minor (turf weeds): Sylvan

Streptomyces (rice weeds): Marrone



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 (Weed Zap) • Brandt (Matratec) • Cutting Edge (Avenger)

Citric Acid: Summerset (All Down)

Fatty Acid Herbicide: Planet Natural (Scythe)

Iron chelate: Gardens Alive (Iron-X)

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

Grain Processing • Soil Technologies • Gardens Alive (WOW) • Fertilizer, Gardener's Supply, Peaceful Valley, North Country (Weedzstop) • 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, 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.agricolaelisol.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., 721 East Main St., Ventura, CA 93001; 888-332-3728, 805/652-1117, Fax 805/652-1155; www.ratzapper.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, RUS-SIA; 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 215/997-6654; rallen@netcarrier.com

Allergy Control Products Inc., 22 Shelter Rock Lane, Danbury, CT 06810; 800/255-3749, 203/297-6214, Fax 203/796-0239;

www.allergycontrol.com

Alsto's, PO Box 1267, Galesburg, IL 61402; 800/447-0048, Fax 800/522-5786; www.alstos.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; 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; 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.amlleo.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, Stahlermatten 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 N1163 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; bug@islandnet.com; www.appliedbionomics.com

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

Arcos 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, PO Box 4637, St. Louis, MO 63108; 800/866-2473, 314/645-1220

A Safe Pest Eliminators, PO Box 163756, Miami, FL 33116; www.unclealbertsbait.com

Associates Insectary, PO Box 969, Santa Paula, CA 93601; 805/933-1301, Fax 805/933-1304; www.associatesinsectary.com

Association of Natural Biocontrol Producers

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

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.agricolagiardi-na.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; www.basf.com

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

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

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

BBC Laboratories Inc., 1217 North Stadem Drive, Tempe, AZ 85281; 480/967-5931, Fax 480/967-5036

BCW (see Biological Control of Weeds)

Becker Underwood, 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, 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
- BioCare Specialty Products**, 1317 H Scott Street, Petaluma, CA 94954; 800/799-2273, 707/762-2601; Fax 707/762-2601
- 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.bio-logico.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
- BioNET-International**, Bakeham Lane, Egham, Surrey TW20 9TY, UNITED KINGDOM; 01784-470111, Fax 01491 829100; www.bionet-intl.org
- BioOrganics Inc.**, PO Box 5326, Palm Springs, CA 92263; 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 703/299-0844; 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.the-birkettmills.com
- Blue Diamond Manufacturing Co.**, PO Box 207, Mooresburg, TN 37811; 800/237-5705, 423/921-9994, Fax 423/921-9488
- 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 76 69 88, Fax +45/86 76 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**, 2935 South Koke Mill Rd., Springfield, IL 62711; 800/442-9821, Fax 217/547-5841; www.brandtconsolidated.com
- 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; 334/874-2700, Fax 334/872-0168; 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
- Cairn's Pest Control**, PO Box 628, Edmonton, N. Queensland 4870, Australia; 07-4045-0810, Fax 07-4045-0810; envirosafe@bigpond.com.au
- 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, 916/341-6611, Fax 916/319-7598; www.calmax.com
- CALTEC Agri Marketing Services**, PO Box 576155, Modesto, CA 95357; 800/491-BUGS, 209/575-1295, Fax 209/575-0366; www.caltecag.com
- Cat Claw Inc.**, PO Box 5250, Johnstown, PA 15904; 800/832-2473, 814/266-5544, Fax 814/269-3800; www.catclaw.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.**, PO Box 72197, 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**, Asvägen 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.cognis.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.contec-inc.com
- Consulting Diagnostic Service**, 992 Santa Barbara Rd., Berkeley, CA 94707; 510/524-9476, Fax 510/524-9476
- 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; 800/451-6544, 231/947-2400, Fax 231/947-9440; www.crittercontrol.com

Crop Production Services, PO Box 1168, Fresno, CA 93715-1168; 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

D'Bug Lady, MVP Business Center, N. 9246 Hwy 805, Suite B, Necedah, WI 54646; 608/565-3284

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., 379 Interpace Parkway, PO Box 677, Parsippany, NY 07054-0677; 800/237-6745

Delmhorst Instrument Co., 51 Indian Ln. E., Towaco, NJ 07082-1025; 877/335-6467, 973/334-2557, Fax 973/334-2657; www.delmhorst.com

Del Pharmaceuticals, Inc., www.dellabs.com

Dey Laboratories, 2751 Napa Valley Dr., Napa, CA 94558; 800/755-5560, 972/396-8500; 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, 642 South Duggan, Azusa, CA 91702; 626/815-1663, Fax 626/815-1687; www.dunhillchemco.com

Dupont Professional Products, CRP Bldg. 705, Contra Rd., Wilmington, DE 19805; 888/638-7668, www.proproducts.dupont.com

D-VAC Company, 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

Earthgro/Scotts, PO Box 143, Rte 207, Lebanon, CT 06249; 800/874-7336, 860/642-7591

Easy Gardener, PO Box 21025, Waco, TX 76702-1025; 800/327-9462, 254/753-5353, Fax 254/753-5372; www.easgardener.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; 727/688-6433, 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; 800/213-0578, 706/769-0025, Fax 706/769-8072; www.maxcharge.com

Enforcer Products (Zep Inc.), PO Box 1060, Cartersville, GA 30120; 800/241-5656, 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

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Agricola Biologica, Via Guglielmo Nicastro 22 97100 Ragusa Sicilia, ITALY; Fax +39 093 26 42 768, email marcficchia@alice.it

AGRObee, Via Mazzini 22 I-09012 Capoterra Sardinia, ITALY; Fax +39 070 72 03 98, www.giancarminaca-su.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

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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

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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

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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 Road, Oregon City, OR 97045; 503/522-0879, 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.flameweeder.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 Hangeslesberg, 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, 941/377-8666, 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

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Gallagher North America, 130W 23rd Ave., PO Box 7506, North Kansas City, MO 64116; 800/531-5908; www.gallagherusa.com

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

Gardens Alive, 5100 Schenley Place, Lawrenceburg, IN 47025; 812/537-8650, 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 732/449-6937; 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.weltenutzlinge.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; 563/264-4211, Fax 563/264-4248; 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, PO Box 17985, San Antonio, TX 78217-0985; 800/777-5702 210/494-3481, Fax 210/494-5224; www.greenlightco.com

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

Green Spot Ltd (see The Green Spot)

Green-Tek, Inc., 3708 Enterprise Dr., Janesville, WI 53546; 800/747-6440, 608/754-7330, 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, PO Box 1252, White Plains, NY 10602; 800/648-7626, 914/428-1316,

Fax 914/428-2780; www.growthproducts.com

Gulf Coast Biotic Technology, 1045 Elkins Lake, Huntsville, TX 77340-8830; 800/524-1958, 936/291-2302, Fax 936/435-1653

H

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

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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., 2601 Matheson Blvd. E, Suite 5, Mississauga, ON, CANADA L4W 5A8; 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, 717/764-1192, 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

Hockney Underwater Weed Cutter Co., PO Box 414, Delavan, WI 53115; 262/215-6037; 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, 200 Westerly Road, Bellingham, WA 98226; 800/729-9029, 360/733-9029, Fax 360/647-1071

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 905/689-3002; www.hortico.com

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Hot Foot America, PO Box 1339, Sausalito, CA 94966; 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-gar-

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Industrial Netting, 7681 Setzler Pky, Minneapolis, MN 55445; 800/328-8456, 763/496-6365, Fax 763/493-6356; www.industrialnetting.com
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Insects Limited, 16950 Westfield Park Drive, Westfield, IN 46074-9374; 800/992-1991; 317/896-9300, Fax 317/867-5757; www.insectslimited.com
International Chitin Production, 8596 Fraser Street, Vancouver, BC, Canada V5X 3Y3; 604/301-3119, Fax 604/301-3129; www.intl-chitin.com
International Technology Services, 1161 Wayzata Blvd. E., Wayzata, MN 55391; 877/505-9703; 303/661-9546, Fax 303/552-5747; www.intertechserv.com
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504/887-3666

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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

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Lab Safety Supply, PO Box 1368, Janesville, WI 53547-1368; 800/356-0783, 800/356-2501, Fax 800/543-9910; www.labsafety.com
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Ladybug Company (see The Ladybug Company)
Ladybug Farms, PO Box 186, North Highlands, CA 95660; 916/348-1917, Fax 916/339-1927
Laverlam International (see BioWorks), 117 South Parkmont, PO Box 4109, Butte, MT 59702; 406/782-2386, Fax 406/782-9912
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 414/247-8166; www.liphattech.com

Box C. Koppert Distributors

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, Brobekkveien 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' Ghajn 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

- Live Oak Structural**, 702 Harrison Street, Ste. B, Berkeley, CA 94710; 510/524-7101; www.liveoakstructural.com
- 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; 530/750-2800; www.marronebioinnovations.com
- Martin Grima**, Ghajn Astas, St. Paul's Bay, MALTA SPB 07; +356 574474, Fax +356 583087
- 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
- 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**, 11562 North NC Hwy 16, Miller's Creek, NC 28651; 888/848-5184; 336/667-7513; 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 Lawn & Garden Products Inc.**, 3654 S Willow Avenue, PO Box 35000, Fresno, CA 93745; 559/499-2100, Fax 559/499-1015; www.lawngarden.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**, 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; 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, 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.com
- 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 Insect Control**, RR#2, 3737 Netherby Rd., Stevensville, Ontario, CANADA L0S 1S0; 905/382-2904, Fax 905/382-4418; www.naturalinsectcontrol.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**, 7105 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.natural-pest-controls.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; 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**, 10 Mountain Springs, Springville, UT 84663; 800/876-9505, 801/489-1700; www.naturesway.com
- Neem America**, 468 North Camden Drive, Ste. 200, Beverly Hills, CA 90210; 310/684-3852, Fax 310/860-7600; www.neemamerica.com
- Nematec**, PO Box 2324, San Ramon, CA 94583; 925/735-8800, Fax 925/365-1237
- Neogen Corp.**, 620 Lesher Place, Lansing, MI 48912; 800/477-8201, 517/372-9200, Fax 517/372-0108; www.neogen.com
- New BioProducts Inc.**, 6421 NW Oak Creek Dr., Corvallis, OR 97330; 541/752-2045, Fax 541/754-3968; www.newbioproducts.net
- New Era Farm Service**, 2904 E. Oakdale, Tulare, CA 93274; 559/686-3833, Fax 559/686-1453
- 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; 800/624-1189, 309/755-8771, Fax 309/755-0077; www.nix-alite.com
- North Country Organics**, PO Box 372, Bradford, VT 05033; 802/222-4277, Fax 802/222-9661; www.norganics.com
- Northeast Organics**, Box 7, Beaver Dam Road, Manchester-by-the-Sea, MA 01944; 800/924-7347, 978/526-7888, Fax 978/526-9818; www.northeastorganics.net
- NovaGuard Technologies**, 17635 Northeast 67th Court, Redmond, WA 98052; 888/822-5039; www.novaguard.com
- Novozymes Biologicals**, 5400 Corporate Circle, Salem, VA 32216; 800/788-9886, Fax 540/389-2688; 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)**, 34284-B road 196, Woodlake, CA 93286; 800/279-9567, 559/564-1236, Fax 559/564-1238; www.callnrg.com
- Nufarm USA**, 150 Harvester Drive, Suite 200, Burr Ridge, IL 60527; 866/241-0611, 630/455-2000, Fax 630/455-2001;

www.nufarm.com

O

Oakfield Apparatus Inc., PO Box 65, Oakfield, WI 53065; 920/583-4114, Fax 920/583-4166; www.soilsamplers.com

Oliver Products Co., 445 Sixth St. NW, Grand Rapids, MI 49504; 800/253-3893, 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

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, PO Box O, Griffin, GA 30224; 800/241-0240, 770/228-8434, Fax 716/882-5905; 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

Parker Pest Control Inc., 3616 E. Lake Rd., Ponca City, OK 74604; 800/654-4541, 580/762-6614, Fax 580/765-4613

Park Seed Co., 1 Parkton Avenue, Greenwood, SC 29647; 800/845-3369, 864/223-7333; www.parkseed.com

Paygro Co., PO Box W, S. Charleston, OH 45368; 800/242-7425; 937/462-8350; www.paygro.com

PBI/Gordon Corp., PO Box 014090, 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

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; 888/738-6588

Pharm Solutions, PO Box 1500, Cambria, CA 93428, 805/927-7500

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, 440 William Pitt Way, Pittsburgh, PA 15238; 800/421-9051, 412/826-5488, Fax 412/826-5445; www.planthealthcare.com

Plant Products, 314 Orenda Way; 330/418-7966; Fax 330/966-0234; www.plantprod.com

Plant Revolution Inc., 2133 S. Hathaway St., Santa Ana, CA 92705; 714/545-5335, Fax 714/545-5429; www.plantrevolution.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, PO Box 421177, Houston, TX 77242; 800/956-0063, 281/879-0932, Fax 281/879-1081; www.poulengerusa.com

Premier Enterprises, 2806 Oakhurst Drive, Los Angeles, CA 90034; 800/776-1889, Fax 310/837-9867

Professional Equipment, 30 Oser Avenue, Suite 500, Hauppauge, NY 11788; 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

Protec USA, 7520 NW 54th Street, Miami, FL 33166; 305/639-1930, Fax 305/639-1928; www.protecusa.biz

R

Real Goods, 360 Interlocken Blvd., Ste 300, Broomfield, CO 80021; 303/449-6601; www.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 Services, 1651 Wall Street, Garland, TX 75041; 800/864-4445, 972/864-1934, Fax 972/864-0128; www.beorganic.com

Rohm and Haas, 100 Independence Mall West, Philadelphia, PA 19106; 215/592-2737, Fax 215/592-3377; www.rohmdhaas.com

Rose Catalog, PO 677, Manua, OH 44255; www.combinedroselist.com

Roxide International Inc., PO Box 239, Larchmont, NY 10538; 800/431-5500, 914/630-7700, Fax 914/630-7701; www.roxide.com

S

Safe Earth Lawn and Gardens, PO Box 339, Pleasantville, IA 50225; 515/222-1997; 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

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, 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; 800/289-7290, 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.nuet-
zlinge.de](http://www.nuet-
zlinge.de)

Sawyer Products, PO Box 188, Safety Harbor,
FL 34695; 800/940-4464, 727/725-1177,
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

S.C. Johnson, 1525 Howe St., Racine, WI 53403;
800/558-5252, 262/260-2000; [www.scjohn-
son.com](http://www.scjohn-
son.com)

Seabright Laboratories, PO Box 8647,
Emeryville, CA 94662; 800/284-7363,
510/655-3126, Fax 510/654-7982;
www.seabrightlabs.com

Senoret Chemical Co., 566 Leffingwell Ave., St.
Louis, MO 63122; 800/837-7644, 314/966-
2394; www.terro.com

Sespe Creek Insectary, PO Box 176, Lindsay,
CA 93247; 559/562-6464, Fax 559/562-
5565; sespecreek@ocs.net

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](http://www.silverlakere-
search.com)

Sioux Corp., One Sioux Plaza, Beresford, SD
57004; 888/763-8833, 605/763-3333, Fax
605/763-3334; www.sioux.com

S & J Ranch, PO Box 3347, Pinedale, CA
93650; 559/439-2598, Fax 559/435-8067

Smith & Hawken, 2 Arbor Lane, PO Box 6900,
Florence, KY 41022; 800/776-3336;
800/940-1170, www.smithandhawken.com

Soil Foodweb Oregon Inc., 635 SW Western
Blvd., Corvallis, OR 97333; 541/752-5066,
Fax 541/752-5142; www.soilfoodweb.com

Soil Soup, 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.grainger.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, 30787 Perkins Avenue,
McFarland, CA 93250; 661/792-6810; Fax
661/792-6880; www.sterlinginsectary.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 Laboratories, 14044 Litchfield Rd.,
Orange, VA 22960; 800/801-0061, 540/672-
0866, Fax 540/672-0052;
www.milkyspore.com

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., 2100 18th Ave., Ste. 1, Rock
Island, IL 61201; 309/794-9800, Fax
309/788-5646; 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.strombergchickens.com

Summerset Products, 130 Columbia Court,
Chaska, MN 55318; 800/237-7583, 954/368-
0020, Fax 952/361-4217; [www.summerset-
products.com](http://www.summerset-
products.com)

Summit Chemical Co., 2355 S. Kresson St.,
Baltimore, MD 21224-2616; 800/227-8664,
410/522-0661, Fax 410/522-0833;
www.summitchemical.com

Sunburst, PO Box 21108, Eugene, OR 97402;
541/345-2272;
www.thermalweedcontrol.com

Sun-Gro Horticultural, 15831 NE 8th St., Suite
100, Bellevue, WA 98008; 800/964-5044;
800/842-3256, 425/641-7577, Fax 425/641-
0138; www.sungro.com

Sun Oil Company, 1801 Market Street,
Philadelphia, PA 19103; 800/395-2786,
610/859-5742; www.sunoco.com

Susan McKnight, Inc. PO Box 11406, Memphis,
TN 38111; 901/848-3831; [www.insect-inter-
ceptor.com](http://www.insect-inter-
ceptor.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

Sylvan BioProducts, 198 Nolte Drive,
Kittanning, PA 16201; 866/352-7520,
724/316-6729

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, DEN-

MARK; 75 14 28 00; www.tanaco.dk

Tanglefoot Co. (see Contech Enterprises), 314
Straight Ave. SW, Grand Rapids, MI 49504;
616/459-4139, Fax 616/459-4140; [www.tan-
glefoot.com](http://www.tan-
glefoot.com)

Target Specialty Products, 1155 Mabury Rd.,
San Jose, CA 95133-1029; 800/767-0719,
408/293-6032, Fax 408/287-2004; [www.tar-
get-specialty.com](http://www.tar-
get-specialty.com)

Temp-Air (electric heaters), 3700 West Preserve
Blvd, Burnsville, MN 55337; 800/836-7432;
www.thermalremediation.com

Tenax Corp., 4800 E. Monument St., Baltimore,
MD 21205; 800/356-8495, 410/522-7000,
Fax 410/522-7015; www.tenax.com

Tender Corporation, PO Box 290 Littleton
Industrial Park, Littleton, NH 03561;
800/258-4696; 603/444-5464, Fax 603/444-
6735; www.tendercorp.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](http://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., NC 28465; 910/201-4146; Fax
910/278-7387; www.termitedetector.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.the-bugfactory.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.**, Dept. of Bio-Ingenuity; 93 Priest Rd., Nottingham, NH 03290; 603/942-8925, Fax 603/942-8932; 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
- Thermal Weed Control Systems**, N1940 State Hwy 95, Neillsville, WI 54456; 715/743-4163, Fax 715/743-2921
- Thermature/TPE Associates**, 180 Canada Largo Road, Ventura, CA 03001; 800/375-7786, Fax 805/648-6999; www.thermature.com
- Thermo Lignum UK Ltd.**, Unit 19, Grand Union Centre, West Row, London W10 5AS, UNITED KINGDOM; +44-208 964 3964, Fax +44-208 964 2969; 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)**, PO Box 520, West Chicago, IL 60186-0520; 800/736-0990, 630/293-3737, Fax 630/231-0353; www.conwedplastics.com
- Tip Top Biocontrol**, 92 Pleasant Valley Rd., Camarillo, CA 93010; 805/445-9001; www.tiptopbio.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
- Tomen Corporation, 8-1, Marunouchi**, 3-Chome, Chiyoda-ku, JAPAN; +81 352882111, Fax +81 352889092
- Topp Portable Air**, 900C Tryens Rd., Aston, PA 19014; 888/364-8677, 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**, PO Box 402, Watertown, SD 57201; 800/423-3396, 562/694-2477, Fax 562/690-5590
- Trécé Inc.**, PO Box 129, Adair, OK 74330; 866/785-1313, 918/785-3061, Fax 918/785-3063; www.treco.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.turf-seed.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
- U.S. Forest Service, USDA**, 14th and Independence Aves., Washington, DC 20250; 202/205-8333
- V**
- Valent BioSciences**, 870 Technology Way, Liberty, 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; 952/884-6477; www.valuegardens.com
- Vegetable Juices Inc.**, 6135 South Nottingham, Chicago, IL 60638; 312/586-6800
- Verus Labs**, 800/206-7821; www.twinject.com
- Vintage Gardens**, 2833 Old Gravenstein Highway S., Sebastapol, CA 95472; 707/829-2035, Fax 707/829-9516
- W**
- Waipuna Australia**, PO Box 80, NSW 2040; 0412 594 527; www.waipuna.com
- Waipuna USA Inc.**, 715 N. Independence, Romeoville, IL 60446; 630/759-8100, Fax 630/759-8155; www.waipuna.com
- Walt's Organic Fertilizer**, PO Box 31580, Seattle, WA 98103; 206/783-6685; www.waltsorganic.com
- Waterbury Companies Inc. (see FMC)**, PO Box 1812, Waterbury, CT 06722; 800/845-3495, 970/482-0911, Fax 800/432-9982; www.fmc.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)**, PO Box 1168, Fresno, CA 93715; 800/829-7671; 559/233-0585, Fax 559/233-0633; www.cpsagu.com
- WF Young, Inc.**, 302 Benton Drive, East Long Meadow, MA 01028; 800/628-9653, Fax 413/526-9999; www.absorbine.com; www.wfyoung.com
- Whitmire Microgen Inc. (see BASF)**, 800/777-8570, 636/225-5371, Fax 636/225-3739; www.basf.com
- 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**, 12390 Sunnyview Rd. NE, Salem, OR 97317; 877/432-6249, 503/585-9320; www.willametteorganics.com
- Wilt-Pruf Products Inc.**, PO Box 469, Essex, CT 06426-0469; 800/972-0726860/767-7033, Fax 860/767-7265; www.wilt-pruf.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 Pharmacal Way., 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
- W.R. Grace**, 7379 Route 32, Columbia, MD 21044; 410/531-4791
- XYZ**
- XT-2000**, 747 West Main St., El Cajon, CA 92020; 866/870-8485, 619/276-7640, 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
Anagyrus fusciventris 15
Anagyrus pseudococci: 15
Anaphes iole 7
Anaphes spp. 6
Anastatus tenvires 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 chitosporus: 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
Bangasternus 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
Brachypterous 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
Episyrrhus 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
Hydrotene 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
 Steinernema carpocapsae or Neoplectana 8
 Steinernema carpocapsae or Neoplectana carpocapsae 6, 12, 13
 Steinernema 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
 Macrolophus caliginosus 20
 Macrolophus 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 lypriformus 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
 Nematocide 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 aldpennis 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
 Pediobius 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 aureofaceans 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 boreoscope 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
 Scurgia esulae 30
 Squirrel-Proof Bird Feeders 28
 Steam Machines and Boilers 24
 Steinemema bibionis: 13
 Steinemema carpocapsae 13, 18
 Steinemema feltiae: 6, 8, 12, 13
 Steinemema riobravisi: 6, 8
 Steinemema 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
 Streptomycin 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
 Sympherobius sanctus 15
 Syringe for nematode injection 6

T

Tannic acid 16
 Technu 29
 Teflon Barrier 3, 10
 Temperature monitor 22
 Tenodera aridifolia sinensis 22
 Terimid 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 11
 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 harzianum 24
 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 limonici 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, weethound 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



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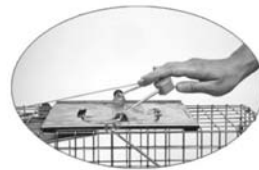
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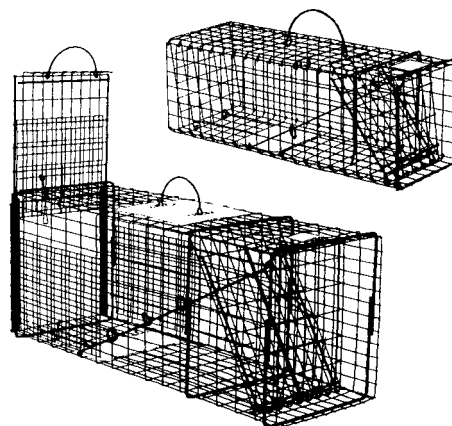
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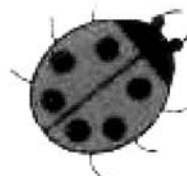
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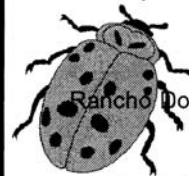


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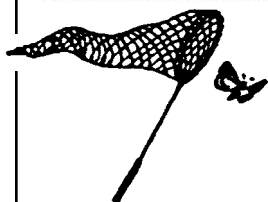
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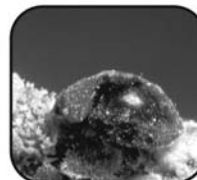
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