

ARBICO *organics*TM

Providing Organic Solutions For Growers Since 1979

Summer Catalog 2016

Natural Products For Your Organic Garden, Farm and Livestock!



EARTH FRIENDLY SOLUTIONS:

- Beneficial Insects
- Beneficial Nematodes
- Biological Fly Control
- Flea & Tick Control
- Insecticides
- Mosquito Control
- Mycorrhizae & Biostimulants
- Predatory Mites & Parasites
- Soil Amendments & Fertilizers
- Weed & Disease Control



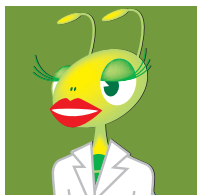
WHY CHOOSE ARBICO ORGANICS?



GUARANTEED LIVE DELIVERY!

ARBICO Organics™ guarantees live beneficial insects. Should your insects perish while en route, we will gladly resend another order. We want you to be satisfied with your purchase. If for any reason you are not

satisfied with your purchase, you can return the item(s) to us within 30 days. Our Customer Care personnel will be happy to assist you with your return.



IPM SPECIALISTS ON STAFF

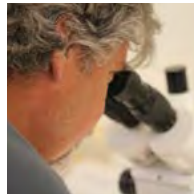
Whether you're a novice gardener or a commercial grower, our IPM Specialists and Product Experts can help identify pest problems and recommend solutions that are specifically tailored to your growing needs. If

you are looking for a "full out" start-to-finish method of growing sustainably using IPM methods, you have come to the right place! There is no charge for a consultation. We look forward to serving you now and in the future.



HISTORY & STABILITY

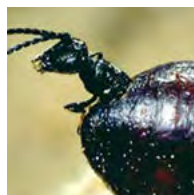
We have been in business for over 35 years. As pioneers of organic growing, we have paved the way for growers to transition to natural methods of growing. We are here to help you grow your best!



QUALITY & SELECTION

Our team evaluates and procures the highest quality products for your home, garden, agricultural and livestock needs. Throughout this catalog and online store you will find products that are:

- OMRI listed (reviewed by the Organic Materials Review Institute).
- WSDA (Washington State Department of Agriculture) Organic Food Program approved.
- CDFA (The California Department of Food and Agriculture) registered.
- Natural products that meet NOP Standards, are pet friendly, or have been approved by the National Home Gardening Club.



ARBICO IS THE "SOURCE"

When you sign up for a Fly Eliminators program, you are buying directly from the "grower." That's right! We actually rear the little insects you release around stables,

dairies, feedlots, poultry, swine and other facilities where flies are a nuisance. We also rear our Assassin Bugs which ensures that you get the best pricing and the freshest product. This also helps us maintain a consistent and quality product delivery as well as ensure great customer service and affordable pricing. We encourage you to take a look at the entire line of ARBICO Organics products that have been formulated for your needs.



CUSTOMER SERVICE YOU CAN COUNT ON

From our knowledgeable team members and our guaranteed live beneficial insect delivery, ARBICO Organics offers superior customer service to any size grower. Call during weekday business hours and you'll always speak to a live on-staff team member, or email Dr. Buglady anytime at drbuglady@arbico.com with your questions. We love to hear from you!

Top 5 Products For Summer Pests!



Fly Eliminators

Fly Control

#1 – Fly Eliminators™ – Pages 18-19

ARBICO Organics Solar Fly Trap – Page 21

Biting Fly Trap – Page 21

ARBICO Organics Holistic Fly Defense – Page 21



Green Lacewing

Aphid, Whitefly & Mite Control

#1 – Green Lacewing – Page 6

Assassin Bug – Page 6

Neem Oil Insecticides – Page 31

Beauveria bassiana Insecticides – Pages 30-32

Liquid Ladybug – Page 32



Mosquito Bits

Mosquito Control

#1 – Mosquito Bits – Page 28

Aquabac – Page 28

Mosquito Barrier – Page 28

Bite Blocker – Page 29

Chig-R-Blok – Page 29



Orange Guard

Crawling Ant Control

#1 – Orange Guard Home Pest Control – Page 50

Diatomaceous Earth – Page 51

Essentria G – Page 51

Monterey Ant Control – Page 50

Terro Ant Bait – Page 52



Semaspore Bait

Grasshopper Control

#1 – *Nosema locustae* products – Page 22

Semaspore Bait – Page 22

Nolo Bait – Page 22

ATTRACTANTS & POLLINATION

Bumblebee Hives

These Portable Hives Arrive Populated With Enough Bumblebees To Provide Efficient Pollination For Your Garden Or Greenhouse.

TARGET: Gardens, hoophouses and greenhouses that require additional help with pollination.

DESCRIPTION: Bumblebees are very efficient pollinators that do not sting or build hives. They become active at temperatures as low as 40°F and remain active in low light and on windy days.

SUGGESTED USE:

Bumblebee Hive - Class A

Covers ≈10,000 - 15,000 sq. ft. and lasts ≈10-12 weeks.

1530001 Class A Hive (10 lbs.) **\$249.95**

Bumblebee Hive - Class B

Covers ≈5,000 - 10,000 sq. ft. and lasts ≈6-8 weeks.

1530002 Class B Hive (10 lbs.) **\$169.00**

Bumblebee Hive - Class C

Covers ≈5,000 sq. ft. and lasts ≈3-5 weeks.

1530003 Class C Hive (10 lbs.) **\$109.97**

Requires NEXT DAY Shipping. ONLY AVAILABLE East of the Rockies.

Cannot be shipped to the following states: HI,OR, PR, VI, GU, AS, PW



Monterey Honey Bee Attractant

Attract Needed Pollinators To Improve Crops!

TARGET: Honey Bees.

DESCRIPTION: The Monterey Honey Bee Attractant contains special pheromones that will direct worker bees to sources of food where they can gather nourishment and pollinate your plants! Contains 3 lures to increase pollination in orchards, gardens, greenhouses and nurseries.

SUGGESTED USE: Wear gloves to avoid contact with the lure while opening the lure top. Carefully attach the included twist-tie to the lure and hang in whatever plants you are luring pollinators to. Place 1 lure every 200 square feet when blooms appear and replace every 2-3 weeks as needed.



1231325 Honey Bee Attractant LG 8610 (.25 lb.) **\$11.50**

SMALL HIVE BEETLE CONTROL



Heterorhabditis indica

Protect Your Hives From Small Hive Beetle.

Image Citation: Jessica Louque, *Smithers Viscient*

TARGET: Small Hive Beetle (*Aethina tumida*)

DESCRIPTION: Now, more than ever, it is important to protect our bees and other pollinators. Using Beneficial Nematodes to control hive beetles is cost effective and eco-friendly.

Heterorhabditis indica is a heat tolerant, entomopathogenic nematode that attacks pre-pupal stages of Small Hive Beetle in the soil. By suspending the nematodes in water and applying to the soil below and around the hive, the nematodes quickly seek out the pupal stage and attack; typically entering the pest and killing it within 24-48 hours. *H. indica* are a virulent and aggressive species of nematodes and work best when the strength of the hive is maintained.

SUGGESTED USE: Remove bag from outer package and fill with water. Once filled, agitate the gel and strain over pint sized container. Once over the container, pour another half pint of water over gel to ensure all nematodes strain out. Take pint of liquid and mix into 5 gallons of water, agitate and apply to infested area. Irrigate after treatment. Use 5 Million for every 10 Hives.

1220200 *Heterorhabditis indica* - 5 million **\$27.00**

2nd Day Shipping Required

Cannot be shipped to the following states: HI, GU, PR, VI.



Honey Bee Magnet

When Placed Where Blooms Are Starting, The Honey Bee Magnet Will Increase The Number Of Pollinators That Come To Your Area.

TARGET: Honey Bees.

DESCRIPTION: The Honey Bee Magnet attracts both honey bees and mason bees with non-toxic natural attractants – fruit volatiles that researchers identified as pheromone lures for bees. When placed where blooms are starting, the Honey Bee Magnet will increase the number of pollinators that come to your area. If you want increased pollination – which means increased fruit, berry and vegetable production – just hang one lure per large fruit tree or one lure per 200 sq. ft. in your garden or field at the start of bloom. The Honey Bee Magnet will last for 2 weeks.

SUGGESTED USE: This simple lure has several advantages over a liquid spray:

- No mess or cleanup
- No need to reapply if bloom lasts 2 weeks or less
- No need to reapply if it rains after 1-3 days

1231317 Honey Bee Magnet - 2 Lures (.1 lb.) **\$7.00**

1231318 Honey Bee Magnet 30 - 10 Lures (.25 lb.) **\$27.97**





Introduction to Beneficials Kit

This "One-Of-A-Kind" Kit Provides An Array Of Products To Prevent, Monitor, Trap & Control Pests While Educating, Enhancing & Promoting Beneficial Insects.

TARGET: Growers who want a start to finish comprehensive solution to pests.

DESCRIPTION: This kit is designed to help you learn more about the good and bad insects that are found in your garden. In addition, it contains the building blocks that will help you attract and keep beneficial insects in your garden:

- Aphid Whitefly Yellow Sticky Traps - 4" x 7" - 5 pack
- Thrips Leafminer Blue Sticky Traps - 4" x 7" - 5 pack
- PredaLure - 2 pack
- Good Bug Power Meal - 1/2 lb.
- Good Bug Blend, Seeds for Beneficial Insect Habitats - 1/2 lb.
- Green Lacewing (*Chrysoperla rufilabris*) - 1,000 Eggs
- *Garden Insects of North America* book by Whitney Cranshaw

SUGGESTED USE: Use the elements of this kit to begin learning about integrated pest management.

100000 Introduction To Beneficials Kit (7.5 lbs.) **\$52.00**

Cannot be shipped to the following states: HI, PR

SAVE OVER \$15.00

Predalure™

Attract Ladybugs, Green Lacewing & Many Other Beneficial Insects Into Your Garden With Predalure.

TARGET: Attract predatory beneficial insects such as green lacewing, ladybugs, etc.

DESCRIPTION: This lure uses a special combination of pheromones and botanicals to attract and keep desirable beneficial predators in your garden.

SUGGESTED USE: Hang one at crop height in your garden or in a tree. Lures last approximately one month.

- | | | | |
|----------------|--------------------------|-----------|----------------|
| 1231319 | Predalure - 2 pack lures | (.25 lb.) | \$9.25 |
| 1231322 | Predalure - 10 lures | (.25 lb.) | \$43.00 |
| 1231321 | Predalure - 25 lures | (1 lb.) | \$90.00 |



ARBICO Organics™ Good Bug Power Meal

Beneficial Insect Attractant & Food.

TARGET: Attract and sustain beneficial insects and butterflies.

DESCRIPTION: Attract and keep beneficial insects in your garden with this balanced food supplement that is composed of proteins, fats, fibers, ash, calcium, phosphorus, sodium, amino acids, vitamins, lactose, and sucrose.

SUGGESTED USE: Dry or wet application can be made. For dry applications you can directly dust your plants. For wet applications, mix 4 oz. /1 gal. of water to treat 3,000 sq. ft. using a garden sprayer. For 1/2 acre, mix 1/2 lb. in 5-10 gal. of water. This product can also be applied as a paste or slurry. Simply add water until desired consistency is reached and use a clean foam or bristle paintbrush to apply to plants. As a nectar source, mix 1 oz. with 1 qt. of water and place in butterfly feeders.

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|----------------|-------------|------------|----------------|
| 1133001 | 1/2 lb. Bag | (.75 lb.) | \$6.50 |
| 1133002 | 1 lb. Bag | (1.5 lbs.) | \$11.50 |



ARBICO Organics™ Good Bug Blend

Flowering Beneficial Insect Habitat – Good for People, Too!

TARGET: Beneficial insects. Keep your beneficial insects from flying away.

DESCRIPTION: Provide the beneficial insects with a source of pollen and nectar year-round in order to feed and reproduce. ARBICO's Good Bug Blend is a combination of yellow, red, crimson, rose, white clovers, grizzly alfalfa, white alyssum, nasturtium, white yarrow, carrot, dill, daikon and celery seeds.

SUGGESTED USE: 1 lb./2,000 sq. ft. or 20 lbs./acre. The first blooms will appear within 45-90 days.

- | | | | |
|----------------|-------------|--------------|-----------------|
| 1134000 | 1/2 lb. Bag | (.75 lb.) | \$5.95 |
| 1134001 | 1 lb. Bag | (1.5 lbs.) | \$9.75 |
| 1134002 | 10 lb. Bag | (11.25 lbs.) | \$67.95 |
| 1134003 | 50 lb. Bag | (52 lbs.) | \$289.00 |



Monterey Lady Bug Attractant

Attract Beautiful & Beneficial Ladybugs!

TARGET: Gardens lacking beneficials, with mild to moderate pest infestations.

DESCRIPTION: This specialized product contains pheromones that will send out signals to and attract garden friendly ladybugs! Contains 3 ready-to-use lures!

SUGGESTED USE: Place in orchards, gardens, greenhouses and nurseries during growing seasons. Wear gloves to avoid touching the lure. Hang where pest infestations are present and replace lure every 2-3 weeks.

- | | | | |
|----------------|--|----------|----------------|
| 1281605 | Lady Bug Attractant - 3 Lures Per Pack | (.5 lb.) | \$11.50 |
|----------------|--|----------|----------------|



BENEFICIAL INSECTS & MITES

GENERALISTS

Ladybugs - *Hippodamia convergens*

Ladybugs Consume A Vast Quantity Of Soft-Bodied Insects On A Daily Basis.

TARGET: Aphids, chinch bugs, asparagus beetle larvae, thrips, alfalfa weevil larvae, bean thrips, grape root worm, Colorado potato beetle larvae, whitefly and mites, plus many other soft-bodied insects and eggs.



DESCRIPTION: One of the most common of all beneficial insects, ladybugs are shipped to you in the adult stage. Each adult consumes about 5,000 aphids. The number of ladybugs per shipment is approximate.

SUGGESTED USE (Depending upon level of infestation): Shipped as adults. Release prior to or at the onset of infestation. Use more or less depending on your level of infestation and crop.

Temperature: Moderate: 62-82°F **Relative Humidity:** Minimum 40%

1112525	≈1,500	(.75 lb.)	≈800 sq. ft.	\$12.95
1112511	≈4,500	(1 lb.)	≈2,500 sq. ft.	\$22.50
1112512	≈9,000	(1 lb.)	≈5,000 sq. ft.	\$29.00
1112513	≈18,000	(1 lb.)	≈10,000 sq. ft.	\$43.00
1112505	≈35,000	(5 lbs.)	≈1/2 acre	\$71.00
1112506	≈70,000	(9 lbs.)	≈1-10 acres	\$125.00

2nd Day Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

Assassin Bug - *Zelus renardii*

These Generalist Terrestrial Ambush Predators Do A Big Job!

TARGET: Leafhoppers, aphids, early instar caterpillars, flies, mites in conjunction with mite predators, and most other pests.



DESCRIPTION: These hardworking ambush predators are an excellent addition to any growing area, large or small. Feasting on a variety of pests, assassin bugs stay put in order to knock out an infestation. With an approximate two-month lifespan, these generalist predators will live, eat and reproduce in the area of release. *Zelus* start eating immediately after hatching, and by the second instar they produce a resin on their legs, which turns them into a walking sticky trap. Once captured, their prey is pierced with their rostrum and a digestive enzyme is injected into the prey and the insect is quickly killed. This method of predation allows for *Zelus* to take out prey much larger than themselves. These generalist predators are voracious and can be used efficiently in gardens, fields, orchards and greenhouses.

SUGGESTED USE (Depending upon level of infestation): Use 500 eggs in a 2,000-3,000 square foot area every 2-3 weeks. Release preventatively or at the first sign of an infestation. For heavy infestations, release 500-1,000 eggs weekly in no more than 2,000 square feet. Release 5-10 thousand eggs biweekly per acre. Shipped as eggs, these beneficial insects will typically hatch in under a week.

Temperature: 55-110°F **Relative Humidity:** 10-75%
1000105 ≈250 Eggs (.5 lb.) **\$36.00**

2nd Day Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

Green Lacewings - *Chrysoperla rufilabris*, *Chrysoperla sp.*



Referred To As "Aphid-Lions," These Generalists Have Amazing Dispersal Abilities!

TARGET: Aphids, mealybugs, spider mites, leafhopper nymphs, moth eggs, scale thrips, whitefly and more.



DESCRIPTION: Green Lacewing are available in all three life stages: egg, larva and adult. Green Lacewing larvae paralyze their prey with venom and then draw out the body fluids of the pest into their large hollow jaws. Each lacewing larva will devour 200 or more pests or pest eggs a week during their two to three week developmental period.

Temperature: Minimum: 60°F Best: 75-90°F

Relative Humidity: 30-50%

Release Rate: Every 7-10 days

1110001	≈1,000 Eggs	(.75 lb.)	\$16.00
1110011	≈5,000 Eggs	(1 lb.)	\$27.00
1110016	≈10,000 Eggs	(1 lb.)	\$37.80
1110005	Larval Frames ≈400 Larvae	(7 lbs.)	\$34.00**
1110006	≈100 Adults	(3 lbs.)	\$44.00**
1110007	≈500 Adults	(7 lbs.)	\$144.00**
1110010	≈1,000 Larvae in Bottle	(7 lbs.)	\$25.00**

Green Lacewing Eggs Programs:

1110002	≈1,000 Eggs/week for 3 total shipments	(.75 lb.)	\$46.80
1110003	≈5,000 Eggs/week for 3 total shipments	(.75 lb.)	\$72.90
1110023	≈10,000 Eggs/week for 3 total shipments	(.75 lb.)	\$101.25

SUGGESTED USE (Depending upon level of infestation):

Eggs	Larvae
Gardens & Greenhouses	Gardens & Greenhouses
≈1k-2k Eggs/1,000 sq. ft.	≈2-4/sq. ft.
Farms	Farms
≈2,000-40,000/acre	≈1,000-2,000/acre
Adults	
Gardens & Greenhouses	
≈1-3/sq. ft., 100/tree	
Gardens & Greenhouses	
≈200-500/acre	

Larvae & Adults Require OVERNIGHT Shipping

*FREE SHIPPING in the contiguous 48 United States. Quantities of 1,000-25,000 ship via USPS Priority only. Quantities of 50,000-250,000 ship via UPS 2nd Day Air only. Expedited shipping available for an additional fee.

**FREE SHIPPING does not apply to Green Lacewing Adults, Green Lacewing Larval Frames and Green Lacewing Larvae in Bottle.

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

Minute Pirate Bug - *Orius insidiosus*

Excellent General Predator In Field Crops & Greenhouses.

TARGET: Thrips, whitefly, spider mites, aphids, psyllids, small caterpillars, insect eggs and others.

DESCRIPTION: Minute Pirate Bugs, *Orius spp.*, also known as flower bugs, are one of the most common general predators in field crops. Their diet consists of a variety of small pests. They are also known to attack adult thrips.

SUGGESTED USE (Depending upon level of infestation): Sold as adults. For maintenance, release 1 to 2 *Orius* per plant in greenhouses or 1 to 4 *Orius* per plant in hot spot areas outdoors. When treating a serious whitefly, aphid, thrips or other pest infestation, we recommend releasing up to 500 *Orius* per 250 sq. ft. area. For field crops, we recommend releasing between 100 and 2,000 *Orius* per acre, depending on the level of infestation.



Temperature: 70-90°F	Relative Humidity: High Humidity
1117001 ≈500 (2 lbs.) \$79.00	
1117003 ≈1,000 (2 lbs.) \$108.00	
1117004 ≈2,000 (3 lbs.) \$205.00	

Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

SPECIALISTS - APHID CONTROL

Aphid Predator - *Aphidoletes aphidimyza*

Choose This Predatory Midge For Environments With A Temperature Range Of 64°-77°F & Moderate Relative Humidity No Higher Than 70%.

TARGET: Over 60 different aphids, including green peach aphids (*Myzus persicae*) and hemlock woolly adelgid (*Adelges tsugae*).

DESCRIPTION: Predacious to aphids, these insects will inject a paralyzing toxin into pest's legs and feed on aphid body contents, causing eventual death.

SUGGESTED USE (Depending upon level of infestation): Apply to existing infestations weekly, until pests subside. Use ≈1-3/10 sq. ft., ≈2-3/10 sq. ft. or ≈4,500/acre.



Temperature: Warm 64-77°F	Relative Humidity: Moderate ≈70%
1101001 ≈1,000 Pupae (2 lbs.) \$80.00	
1101003 ≈3,000 Pupae (5 lbs.) \$207.00	

Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

Aphid Parasite - *Aphidius colemani*

Exceptional In Greenhouses Producing Vegetables & Ornamentals.

TARGET: Aphids, especially melon and cotton aphids (*Aphis gossypii*).

DESCRIPTION: Shipped as mummies, ready to emerge.

SUGGESTED USE (Depending upon level of infestation): Apply to existing infestations weekly, until pests subside. Use ≈1-8/1 sq. yd. or ≈500-3,000/acre.

Temperature: 64-75°F	Relative Humidity: High ≈80%
1101302 ≈500 Mummies (2 lbs.) \$43.00	
1101301 ≈1,000 Mummies (2 lbs.) \$59.95	

Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW



Aphid Parasite - *Aphidius ervi*

This Parasitic, Non-Stinging Wasp Attacks Several Varieties Of Aphids.

Image Citation: Alex Wild

TARGET: Aphids, especially potato (*Macrosiphum euphorbia*), glasshouse potato (*Aulacortham solani*), green peach (*Myzus persicae*), and pea aphids (*Acyrthosiphon pisum*).

DESCRIPTION: Shipped as mummies, ready to emerge.

SUGGESTED USE (Depending upon level of infestation): Apply to existing infestations weekly, until pests subside. Use ≈ 1-3/10 sq. ft. or 1-8/sq. yd.

Temperature: 64-75°F	Relative Humidity: Moderate ≈70%
1001001 ≈250 Mummies (2 lbs.) \$80.00	

Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW



Aphid Parasite - *Aphidius abdominalis*

This Parasitic, Non-Stinging Wasp Is Effective For A Wide Range Of Aphids.

TARGET: Aphids, especially potato aphids (*Macrosiphum euphorbiae*) and glasshouse potato aphids (*Aulacortham solani*).

DESCRIPTION: Shipped as mummies, ready to emerge. Apply to existing infestations weekly, until pests subside.

SUGGESTED USE (Depending upon level of infestation): Apply before the onset of infestation. Use ≈250/5,000 sq. ft. or ≈1,000-4,000/acre.

Temperature: Hot 68-80°F	Relative Humidity: Low-High ≈60-80%
1101101 ≈250 Mummies (2 lbs.) \$65.50	

Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW



BENEFICIAL INSECTS & MITES

SPECIALISTS - WHITEFLY CONTROL

Whitefly Parasite - *Encarsia formosa*



Save Your Plants From The Ravages Of Destructive Whiteflies! Good For Greenhouses.

TARGET: Greenhouse whitefly (*Trialeurodes vaporarum*), sweet potato whitefly (*Bemisia tabaci*) and approximately 15 other species of whitefly.



DESCRIPTION: The whitefly parasite (parasitoid) is a tiny wasp that host feeds and parasitizes the scale (nymphs) of whitefly. The time from egg laying to adult emergence is approx. 25 days. Can be used with Green Lacewings.

SUGGESTED USE (Depending upon level of infestation): For prevention: 500-1,000/15,000 sq. ft. Light infestations: (less than 1 adult whitefly per 50-100 plants) use 1,000-2,000/5,000-10,000 sq. ft. for minimum of 3 weeks or until control is achieved. Heavy infestations: use 3,000/3,500 sq. ft. for a minimum of 3 weeks or until control is achieved. Hang squares with parasitized pupae on plant foliage at first sign of infestation. Order weekly for approximately 2-6 weeks until control is achieved. Call to set up your customized weekly program.

Temperature: Moderate 76-85°F **Relative Humidity:** Moderate ≈50-70%

1132001	≈1,000	(1 lb.)	\$36.00
1132002	≈3,000	(1 lb.)	\$55.90
1132003	≈5,000	(2 lbs.)	\$70.00

*FREE SHIPPING in the contiguous 48 states. Ships via 2nd Day Only. Ships only on Monday, Tuesday and Wednesday.

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW



Whitefly Infestation

Whitefly Parasite - *Eretmocerus eremicus*

Better Adapted To Higher Temperatures, Including Temperatures That Fluctuate Day & Night! Good For Desert Climates.

TARGET: Greenhouse whitefly (*Trialeurodes vaporarum*), sweet potato whitefly (*Bemisia tabaci*), silverleaf whitefly (*Bemisia argentifolii*), and banded-winged whitefly (*T. abutiloneus*) and others.



Eretmocerus eremicus

DESCRIPTION: The whitefly parasite (parasitoid) is a tiny wasp that host feeds and parasitizes the scale (nymphs) of whitefly. The time from egg laying to adult emergence is approx. 22 days. Can be used with Green Lacewings.

SUGGESTED USE (Depending upon level of infestation): For prevention: use 1,000/10,000 sq. ft. Light infestations: 1,000/1,000 sq. ft. Heavy infestations: use 5,000/1,000 sq. ft. Hang squares with parasitized pupae on plant foliage at first sign of infestation. Order weekly for approximately 2-6 weeks until control is achieved. Call to set up your customized weekly program.

Temperature: Moderate 62-82°F **Relative Humidity:** Minimum 40%

1000703 20 blister pk. ≈250 Pupae per blister pack (2 lbs.) **\$96.00**

Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

Whitefly Parasite - *Delphastus catalinae*

These Tiny Brown Beetles Consume Several Hundred Pests Daily!

TARGET: Aphids, scale, thrips, and especially greenhouse and outdoor sweet potato whitefly and whitefly.



Delphastus catalinae

DESCRIPTION: Females lay ≈3-4 eggs daily and adults live for approximately one month. Adult beetles capture prey with mandibles, inject paralyzing venom and feed on pest body fluids. Shipped as adults, they should be used at the first signs of infestation.

SUGGESTED USE (Depending upon level of infestation): Upon arrival, release at sundown. May be stored at temperatures between 50-60°F for 1-2 days. Can combine with other whitefly parasites.

Temperature: Moderate 65-90°F **Relative Humidity:** High ≈70% & Higher

1126001	≈100	(3 lbs.)	\$47.50
1126003	≈200	(3 lbs.)	\$74.95
1126002	≈1000	(3 lbs.)	\$162.00

Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

BENEFICIAL MITES

Mite Predator - *Amblyseius andersoni*

Great For Pre-Emergent Control Of Pest Mite Infestations!

TARGET: Various pest mites including broad mite (*Polyphagotarsonemus latus*), cyclamen mite (*Phytonemus pallidus*), two-spotted spider mite (*Tetranychus urticae*), red spider mite (*Tetranychus cinnabarinus*), tomato russet mite (*Aculops lysopersici*), and rust mite (*Eriophyidae*).



DESCRIPTION: This predatory mite is less than 1mm long and light brown. Adult females lay about 35 eggs in a lifetime, arranging eggs onto leaf hairs. This predatory mite feeds on all stages of pest mites, thrips, pollen and honeydew.

SUGGESTED USE (Depending upon level of infestation): Apply on infestations on aubergine, cucumber, cut flowers, melons, ornamental potted plants, peppers, raspberries, strawberries and tomato crops. Colonies of predators are shipped inside specially designed sachets. The sachets contain approximately 250 predators and colonies will continue to breed inside their sachets once placed into crops. Place before the onset of infestation. Can be used with *Phytoseiulus persimilis* and *Stethorus punctillum*. Replace sachets every six weeks dependent on control needs and infestation levels.

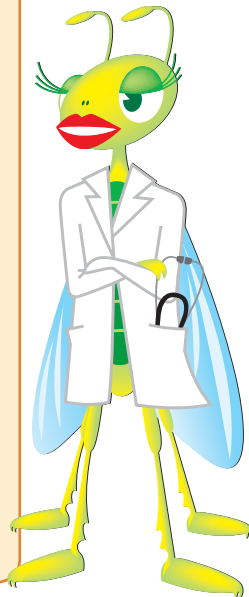
Temperature: Moderate 42-100°F **Relative Humidity:** High if in higher temps.

1101320	100 Gemini Sachets (≈25,000) ≈1 Sachet/6-3 ft. of crop row	(8.5 lbs.)	\$135.00
1101321	1 Bag (≈125,000)	(5 lbs.)	\$425.50
1101322	6 x 328 ft. CRS Sachet	(5 lbs.)	\$547.00
1101323	200 Mini Sachets w/Hooks	(3 lbs.)	\$152.00

Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

“Apply beneficial predatory mites when you see a few mites. Starting a biological control program early and making releases on a weekly basis until the infestation subsides is the key to success in controlling mites and protecting your plants.”
- Dr. Buglady



Mite Predator - *Phytoseiulus persimilis*

The Mite Predator With The Highest Consumption & Dispersal Rate.

TARGET: Various mites including two spotted spider mites.

DESCRIPTION: These orange and bright red predatory mites have high consumption rates, feeding on approx. 5-20 pests and pest eggs per day! Females will lay about 60 eggs throughout their 50-day lifespan. They will not enter a diapause stage in enclosed or greenhouse settings; making them active year round.

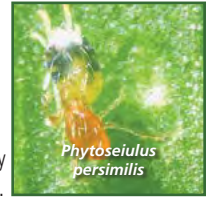
SUGGESTED USE (Depending upon level of infestation): 500-1,000/acre every 2 weeks, 2-3 releases. Use indoors and outdoors. Weekly release programs available. Please call.

Temperature: Moderate: 68-90°F **Relative Humidity:** High: 60-90%

1151204	≈2,000	(2 lbs.)	\$35.00
1151205	≈4,000	(2 lbs.)	\$52.00
1151206	≈6,000	(3 lbs.)	\$66.50
1151207	≈10,000	(5 lbs.)	\$102.50

Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW



Mite Predator - *Amblyseius swirskii*

Use For Crops Grown In Warmer Weather Conditions.

TARGET: Western flower thrips (*Frankliniella occidentalis*), onion thrips (*Thrips tabaci*), glasshouse whitefly, (*Trialeurodes vaporariorum*), tobacco whitefly (*Bemisia tabaci*) or silverleaf whitefly.

DESCRIPTION: These predacious mites feed on various pest insects in their developing adult stages, pollen and mold. They may consume about 10 thrips or whitefly larvae a day and up to about 20 whitefly eggs per day. They will not undergo diapause, and can be used in protected crops in cooler growing areas.

SUGGESTED USE (Depending upon level of infestation): Introduce before the onset of infestation, when nighttime temperatures are at least 60°F. Not recommended for use on infestations on tomato crops. Colonies of predators are shipped inside specially designed sachets containing approximately 250 predators. The sachets allow for controlled release, continued predator emergence, are water resistant and can be used indoors/outdoors and with overhead irrigation. Sachets will be active for ≈2-4 weeks depending on infestation level and predator establishment.

Temperature: Moderate 60-85°F **Relative Humidity:** 70%

1101310	500 Gemini Sachets (≈25,000)	(4 lbs.)	\$296.00
1101311	1 Bag (≈125,000)	(3 lbs.)	\$270.00
1101312	1 Tube (≈125,000)	(3 lbs.)	\$68.20
1101313	500 Sachets w/Hooks	(4 lbs.)	\$290.50
1101314	6 x 328 ft. Sachet	(5 lbs.)	\$450.00
1101315	1,000 Mini Sachets w/Hooks	(4 lbs.)	\$467.00

Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW



BENEFICIAL INSECTS & MITES

BENEFICIAL MITES

Mite Predator - *Galendromus occidentalis*

Excellent For Hot & Dry Inland Areas!

Image Citation: Photo by E. Beers, WSU- TFREC

TARGET: Various mites; two spotted spider mites, russet mites, eriophyid mites, etc.

DESCRIPTION: Early stages are white, turning red or brown depending on pest host consumed. Adults feed on about 6 pest eggs or 1-3 pest adults per day. Females lay approx. 20 eggs in a 30 day lifecycle. Eggs hatch in a few days, and development to adulthood takes about 7-14 days. Ideal for use on fruit trees, vegetables, grapes and field crops.



SUGGESTED USE (Depending upon level of infestation): Used indoors and outdoors. For indoor, use ≈1,000 per 500 sq. ft. For outdoor, use ≈2,000-5,000 per acre. Use weekly until infestations subside.

Temperature: Hot 80-110°F **Relative Humidity:** Low 40%

1151202	≈1,000	(2 lbs.)	\$43.00
1151220	≈10,000	(6 lbs.)	\$160.00
1151221	≈50,000	(8 lbs.)	\$603.00

Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

Mite Predator - *Mesoseiulus longipes*

Originating In South Africa, This Predatory Mite Is Known For Its Quick Hunting Skills In Warmer & Very Dry Conditions.

Image Citation: Photo by Merritt Singleton, University of Wisconsin - Madison, Dept. of Entomology

TARGET: Most mites.

DESCRIPTION: An excellent choice for dry, western states. The female mite predator will lay approx. 50 eggs during lifespan of approx. 13-40 days. Consumption of pest is dependent upon temperatures and infestation conditions. Use in greenhouses and with taller plants growing under warm lights.

SUGGESTED USE (Depending upon level of infestation): Use in warm/dry greenhouses and in low pest population; lasts longer than most mite predators. Use weekly and apply 3-5 times. For indoor use: ≈1,000 per 300 sq. ft. For outdoor use: ≈5,000 per acre.

Temperature: Hot 70-100°F **Relative Humidity:** Low 40%

1151203	≈1,000	(2 lbs.)	\$38.50
1156301	≈5,000	(3 lbs.)	\$80.00
1156401	≈10,000	(3 lbs.)	\$142.00

Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

Predatory Mite - *Neoseiulus (=Amblyseius) californicus*

A Steady Feeder, Good For Areas Where Temperatures May Drop.

TARGET: Various mites; cyclamen mites and broad mites.

DESCRIPTION: This tiny, ivory, pear-shaped predatory mite feeds on a variety of pests on crops including: cucumbers, tomatoes, strawberries, tropical foliage plants, and greenhouse roses. Although adults consume prey at a relatively slow rate of about one egg per day, they can survive longer under starvation conditions. During their lifetime of about 20 days, females will lay approx. 1-3 eggs per day. Eggs hatch within a few days and adulthood is reached in about 4-12 days.

SUGGESTED USE (Depending upon level of infestation): Use ≈1,000 per 4,500 sq. ft. in greenhouses to treat for broad mite. Use ≈10,000 per acre to treat for cyclamen mites on strawberry. Use weekly until infestation subsides.

Temperature: Warm 50-105°F **Relative Humidity:** No higher than 60%

1151201	≈1,000	(2 lbs.)	\$35.00
1151208	≈2,000	(2 lbs.)	\$43.00
1151209	≈5,000	(2 lbs.)	\$65.00
1151210	≈10,000	(2 lbs.)	\$106.00
1151212	≈25,000	(2 lbs.)	\$125.00

Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW



Spider Mite Destroyer - *Feltiella acarisuga*

Use These Predators In Addition To Spider Mite Predators (Predatory Mites) When Spider Mite Populations Are Especially High.

TARGET: Various mites.

DESCRIPTION: The entire life cycle is about 15 days. Adults are about 2 mm long, pinkish-brown, and have long legs. They do not prey on spider mites, but drink water and nectar. The female adult gall-midges actively search for spider mite colonies and deposit eggs next to them for about 5 days. Eggs laid are .1 x .25 mm in size and are shiny and translucent. They hatch in 2 days. The larvae that hatch from the eggs are .2-2 mm in length and are orange-brown. They feed on all stages of the spider mite for 4-6 days, depending on the temperature, humidity, and abundance of spider mites. Larvae pupate inside a white cocoon, usually on the underside of leaves along the veins. It takes 4-6 days to produce an adult.

SUGGESTED USE (Depending upon level of infestation): For light infestations, introduce 10/1,000 sq. ft or 400/acre every 7 days, for at least 3 weeks. For heavy infestations, introduce 25/1,000 sq. ft. or 1,000/acre every 7 days, for at least 3 weeks.

Temperature: Moderate 60-77°F **Relative Humidity:** High 50-90%

1155701	≈250	(3 lbs.)	\$140.40
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Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW



SPECIALISTS

Mite Predator - *Neoseiulus (=Amblyseius) fallacis*

An Excellent Mite Predator For Control Of Many Different Types Of Mites In Moderately Warm & Dry Environments Where *P. Persimillis* Is Less Effective.

Image Citation: Photo by Dr. Art Agnello, Cornell University

TARGET: Most mites.



DESCRIPTION: This predatory mite effectively suppresses cyclamen mite in strawberry fields, broad mite in greenhouse crops, European red mite and two-spotted spider mite in orchards, spider mite on roses and vegetable crops in greenhouses and general mite problems on mint and hops in northern climates. Eggs and nymphs are difficult to see as they are small and almost transparent. Adults are pear-shaped and ivory until feeding, when they take on the red or brown coloration of their prey. Adult females consume around 2-16 pest mites per day and lay ~20-60 eggs during a 14-60 day life-cycle. The transition from egg to adult stage takes about 7-9 days.

SUGGESTED USE (Depending upon level of infestation): Good for cold climates! Use preventatively; over-winters and sustains on pollen. Release at the start and end of the season. Use ~1,000 per 4,500 sq. ft or 10,000 per acre.

Temperature: Moderate 50-80°F **Relative Humidity:** High 60-90%

1151401	≈1,000	(1 lb.)	\$39.95
1151402	≈2,000	(3 lbs.)	\$52.00
1151403	≈5,000	(3 lbs.)	\$86.75
1151404	≈10,000	(3 lbs.)	\$152.00

Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

Spider Mite Destroyer - *Stethorus punctillum*

Use These Predators In Addition To Other Spider Mite Predators (Predatory Mites) When Spider Mite Populations Are Especially High.

TARGET: Various mites.



DESCRIPTION: Using smell, this tiny ladybug is an effective locator and as an adult will consume more than 40 mites per day. Females lay up to 15 eggs per day. Development to the adult stage takes around 18 days at a temperature of 70°F and the total lifespan of the predator is about 9 weeks. They are known to survive temperatures over 100°F in field crops.

SUGGESTED USE (Depending upon level of infestation): Use 100 adults per 300 sq. ft. of infested area. Release adult beetles into mite infested areas and look for signs of reproduction (larvae, pupae, and adults) after four weeks. This predator is more mobile than spider-mite predators (predatory mites) but takes longer to establish, so releases of spider-mite predators should also be made into mite infested areas.

Temperature: Moderate 73-77°F **Relative Humidity:** High 60%

1113301	≈100	(3 lbs.)	\$79.00
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Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

Moth Egg Parasites - *Trichogramma sp.*

Prevent Worm Pest Damage On Crops!

TARGET: Egg stages of more than 200 pests, including: borers, webworms, loopers, leafminers, fruitworms, cutworms, bollworms and armyworms (excluding beet armyworm).



DESCRIPTION: *Trichogramma* lay their eggs in the pest eggs, killing them. Adults emerge 2-3 days after release. They live 7-75 days depending on temperature and moisture. *Trichogramma* are shipped in the parasitized host egg. Each square has been inoculated with ~2,400 eggs per square.

SUGGESTED USE (Depending upon level of infestation): Use ~1 square/300 sq. ft.; 1/2-2 cards/acre weekly for 2-6 weeks. Release at first flight of moths and every 7-10 days thereafter until infestation subsides. Place squares where moths are seen. Use traps for monitoring and trapping adult moths.

Temperature: Minimum 50°F **Relative Humidity:** Moderate

SKU #	Amount & Weight	Price
<i>Trichogramma pretiosum</i> - row crops, vineyards		
1131021	3 Squares (1 lb.)	\$7.00
1131003	6 Squares (1 lb.)	\$12.00
1131022	1 Card (30 Squares) (1 lb.)	\$25.00
1131023	5-9 Cards (2 lbs.)	\$22.50 per card
1131024	10+ Cards (3 lbs. for every 10)	\$20.50 per card
<i>Trichogramma brassicae</i> - European cabbage butterfly, cutworm, corn earworm, European cornborer, cabbage looper, armyworm		
1131910	3 Squares (1 lb.)	\$7.00
1131903	6 Squares (1 lb.)	\$12.00
1131911	1 Card (30 Squares) (1 lb.)	\$25.00
1131912	5-9 Cards (2 lbs.)	\$22.50 per card
1131913	10+ Cards (3 lbs. for every 10)	\$20.50 per card
<i>Trichogramma minutum</i> - trees, bogs, more common on the East Coast		
1129001	3 Squares (1 lb.)	\$7.00
1129003	6 Squares (1 lb.)	\$12.00
1129010	1 Card (30 Squares) (1 lb.)	\$25.00
1129025	5-9 Cards (2 lbs.)	\$22.50 per card
1129030	10+ Cards (3 lbs. for every 10)	\$20.50 per card
<i>Trichogramma platneri</i> - orchards more common West of the Rockies		
1130001	3 Squares (1 lb.)	\$7.00
1130003	6 Squares (1 lb.)	\$12.00
1130030	1 Card (30 Squares) (1 lb.)	\$25.00
1130035	5-9 Cards (2 lbs.)	\$22.50 per card
1130040	10+ Cards (3 lbs. for every 10)	\$20.50 per card

2nd Day Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

BENEFICIAL INSECTS & MITES

SPECIALISTS

Mexican Bean Beetle Parasite - *Pediobius foveolatus*

Is Most Effective When Introduced At The First Sign Of Mexican Bean Beetles.

TARGET: Mexican bean beetle (*Epilachna varivestis Mulsant*)

DESCRIPTION: The Mexican bean beetle is a major insect pest of beans. The Mexican bean beetle adults and larvae will eat the undersides of the bean leaves causing lacing of the foliage. The high levels of damage to the leaves can significantly reduce your yearly bean yields. *Pediobius foveolatus* is a small beneficial wasp that will parasitize 2nd through 4th instar larvae of the Mexican bean beetle (and the same stages of squash beetle larvae, a closely related species). Shipped to you inside their host; Mexican bean beetle pupae. Once the adults emerge, the females deposit their eggs in the larvae of the Mexican bean beetle.



SUGGESTED USE (Depending upon level of infestation): Timing is critical; release one mummy per 70 sq. ft. Approximately 20-25 wasps per mummy = approximately 800-1000 wasps per 40 mummies.

Temperature: Moderate 64-75°F **Relative Humidity:** High ≈50-90%

1102002	20 Mummies	(1 lb.)	\$117.00
1102201	80 Mummies	(4 lbs.)	\$359.00

Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

Rove Beetle - *Dalotia coriaria* (= *Atheta coriaria*)

For Indoor Control Of Soil Dwelling Pests!

TARGET: Fungus gnats (sciarid flies), thrips and shore flies.

DESCRIPTION: "Rove beetles" will feed on small soil-dwelling pest larvae and eggs. Adults are a brown-black color, 3-4 mm long and winged. They are predacious in all stages and develop from egg to adult in about 21 days; passing through three larval instars prior to pupation and adulthood. Adults consume about 150 pest fungus gnat eggs per day. Compatible with *Stratiolaelaps scimitus* (= *Hypoaspis miles*). Winged adults have high dispersal and colonization rates and are not recommended for outdoor use.



SUGGESTED USE (Depending upon level of infestation): Use season-long, in covered crops such as ornamentals, cucumbers, strawberries and mushrooms. Apply directly to growing medium surface. Release twice in a 7 day interval for quick establishment. Apply about 1-5 predators/sq. mi. and up to 10 predators/sq. mi. in high infestation.

Temperature: Moderate 55-80°F **Relative Humidity:** 50-80%

1101330	1 Tube (≈500 Adults)	(2.5 lbs.)	\$67.50
1101332	1 Bag (≈3,000 Adults)	(7.25 lbs.)	\$170.00

Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

Thrips Predator - *Neoseiulus* (= *Amblyseius*) *cucumeris*

These Beneficial Mites Consume Vast Quantities Of Thrips.

TARGET: These predatory mites strongly prefer both greenhouse and western flower thrips. They also eat spider mites and pollen.

DESCRIPTION: Tan colored adult females lay about 35 small white eggs throughout their lifespan of about 30 days. During the 7-10 day nymph stage, predation begins. Adults will consume about 1 pest a day. Predators are shipped as adults.



SUGGESTED USE (Depending upon level of infestation): Release mites prior to and at onset of infestation. Place at the base of plants. Monitor with Sticky Thrips/Leafminer Traps. For greenhouse crops: ≈50-100 predators/cucumber plant, ≈10-100/pepper plant, Bedding and potted plants ≈1,000/1,000 sq. ft., Tropical plants 1,000/150-200 sq. ft. Apply ≈10,000 per acre. Repeat releases weekly until infestation subsides. Weekly release programs available. Please call.

Temperature: Moderate 66-80°F **Relative Humidity:** Moderate 65-72%

1152204	≈50,000	(3 lbs.)	\$48.50
1152205	≈100,000	(5 lbs.)	\$73.70
1152206	≈250,000	(7 lbs.)	\$140.30
1152201	200 Sachets	(4 lbs.)	\$79.00
1152202	500 Sachets	(4 lbs.)	\$143.00
1152203	300 Gemini sachets	(4 lbs.)	\$90.00

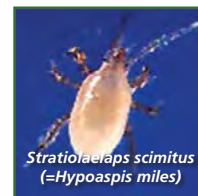
Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

Fungus Gnat Predator - *Stratiolaelaps scimitus* (= *Hypoaspis miles*)

Stop Destructive Fungus Gnats & Thrips In Their Developing Soil Stages.

TARGET: Fungus gnats, western flower thrips, springtails, mold mites, spider mites, cactus root mealybugs, strawberry root weevils and black vine root weevils.



DESCRIPTION: This tiny brown mite naturally inhabits the top layer of soil where larvae and pupae dwell. Female predatory mites lay their eggs in soil and the nymphs and adults feed on pests.

SUGGESTED USE (Depending upon level of infestation): ≈5,000-10,000 mites treat approximately 1,000 sq. ft. Release ≈25,000-50,000/acre depending on level of infestation. Apply weekly until infestation subsides. Weekly release programs available. Please Call. Trap adult infestations using Blue Sticky Traps. Reinforce with applications of beneficial nematodes.

Temperature: Moderate 60-72°F **Soil Conditions:** Moist soil. Not too damp.

1154002	≈25,000	(3 lbs.)	\$32.75
1154003	≈150,000	(5 lbs.)	\$170.00

Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

Mealybug Destroyer - *Cryptolaemus montrouzieri*

These Tiny Ladybird Beetles Devour Pest Mealybugs In Both The Larval & Adult Stages.

Image Citation: Nijel Cruz

TARGET: Mealybugs, aphids, mites, thrips, whitefly, and other soft bodied insects.

DESCRIPTION: *Cryptolaemus* is a small dark brown ladybug with an orange head and tail (*elytra*). The larvae are up to 13 mm long and are white with a wax like covering. The pupae are found in sheltered places, stems, the underside of leaves and greenhouse structures. Shipped as adults and most effective in severe infestations.

SUGGESTED USE (Depending upon level of infestation): 500-1,000/acre every 2 weeks, 2-3 releases. Use indoors and outdoors. Weekly release programs available. Please call.

Temperature: Low-High 61-91°F **Relative Humidity:** Moderate ≈70-80%

1114702	≈100 Adults	(2 lbs.)	\$49.95
1114703	≈250 Adults	(2 lbs.)	\$97.00
1114704	≈500 Adults	(2 lbs.)	\$194.50
1114705	≈1,000 Adults	(4 lbs.)	\$330.55
1114710	≈5,000 Adults	(16.5 lbs.)	\$699.75

Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW



Mealybug Parasitoid - *Anagyrus pseudococci*

Stop Destructive Mealy Bugs With This Beneficial Parasitoid.

Image Citation: Crerob Hermosillo, Mexico

TARGET: Citrus mealybug, grape mealybug, vine mealybug, cypress mealybug, obscure mealybug, longtail mealy bug and most *Planococcus* and *Pseudococcus* spp.

DESCRIPTION: These solitary parasitoid wasps of mealybugs are shipped as mummies, hatch within five days of arrival and immediately begin to oviposit. Once the egg is laid inside the mealybug, the larva develops and consumes the mealybug. One female will parasitize nearly 50 mealybugs.

SUGGESTED USE (Depending upon level of infestation): Release 1 wasp/5 sq. ft. every two weeks and or field application use about a minimum of 2,000 mummies/acre monthly. Keep at room temperature to ensure emergence. Remove bottle top, place near infested areas and let wasps emerge on their own. DO NOT use near ants as they will inhibit wasp parasitism and reproduction.

Temperature: Moderate 58-90°F **Relative Humidity:** Moderate ≈40-60%

1132050	≈100 Mummies	(3 lbs.)	\$21.50
1132051	≈250 Mummies	(3 lbs.)	\$54.00
1132052	≈500 Mummies	(4 lbs.)	\$107.00

Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW



Purple Scale Predator - *Rhyzobius (=Lindorus) lophanthae*

Voracious Adults & Larvae Feed On Scale & Other Pests!

TARGET: Specializes in purple scale, relatively thin scale covered insects and immature stages of soft scale until honeydew forms. Also predate on mealybug and other small insects.

DESCRIPTION: Also known as the Australian Ladybird Beetle. Adults are small, shiny black lady beetles. The larvae is grey and alligator shaped. Both adults and larvae feed on target pests.

SUGGESTED USE (Depending upon level of infestation): Apply about 100/250 sq. ft. for light infestations, 100/100 sq. ft. for heavy infestations, 5 to 10 per heavily infested large plant and 20-40 per tree.

Temperature: Moderate 59-77°F **Relative Humidity:** Low-High ≈20-90%

1121501	≈100	(3 lbs.)	\$85.50
1121502	≈250	(3 lbs.)	\$160.00

Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW



Red Scale Parasite - *Aphytis melinus*

Use These Parasitic Wasps On A Variety Of Armored Scale Pests!

TARGET: California red scale, citrus red scale, oleander scale, San Jose scale, ivy scale, yellow scale and other armored scale varieties.

DESCRIPTION: Shipped as adults. Females lay their eggs in host scale. Larvae hatch inside host bodies and consume and kill scale. One adult will kill about 30 scale insects in one generation. Adult parasites live approximately 26 days.

SUGGESTED USE (Depending upon level of infestation): Release about 1-2 wasps per sq. ft. or about 5,000/acre. Release weekly and 1-3 applications are usually required depending upon infestation.

Temperature: Moderate 76-85°F **Relative Humidity:** Moderate ≈40-50%

1122001	≈10,000	(3 lbs.)	\$27.00
1122002	≈25,000	(4 lbs.)	\$57.00
1122003	≈50,000	(6 lbs.)	\$109.00

Overnight Shipping Required

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW



INSECT TRAPS

Yellow Stiky™ Tape

A New Longer Length To Cover Even More Area.

TARGET: Whitefly, aphids, leafhoppers, fungus gnats, froghoppers (spittlebugs), flies and more.

DESCRIPTION: When you have an insect population in a large area that you need to monitor and trap, this sticky tape is the choice for you. It will work well against aphids, thrips, flies, gnats and many others. Pre-coated with adhesive on both sides, this yellow tape is 530' long and comes in 4 convenient widths (2", 6" 10" & 12"), making it perfect for a variety of locations. You'll also find that the extra thick cardboard flanges and heavy duty plastic plugs make these rolls easy to work with and the product easy to dispense. You can loop these along the perimeter of fields, inside greenhouses, barns, corrals, stalls or any other area where you need insect control. Any unwanted pests or other residue can be removed with vegetable oil or CitraSolv® (available online).

SUGGESTED USE: Loop along the perimeter of fields, inside greenhouses, barns, corrals, stalls or any other area where you need insect control.

1259610	2" wide x 530' long	(2.6 lbs.)	\$48.50
1259611	6" wide x 530' long	(8.8 lbs.)	\$118.00
1259612	10" wide x 530' long	(15 lbs.)	\$189.25
1259613	12" wide x 530' long	(16.2 lbs.)	\$228.50



Yellow Sticky Trap Ribbon

Positively Identify Your Pests!

TARGET: Whitefly, aphids, leafhoppers, fungus gnats, froghoppers (spittlebugs), flies and more.

DESCRIPTION: This pre-coated yellow strip, 100 feet long and 6 1/4 inches wide, is sticky on both sides in a 6-inch pattern. This trap can reduce or eliminate the use of chemicals.

SUGGESTED USE: It can be used in a greenhouse, placing it close to the upper vents where it will trap incoming insects. The Yellow Ribbon Trap can also be set around the perimeter of a field to trap migrating insects or in the rows between plants. It is recommended for foliage crops, grapes, leaf crops or nurseries as well as greenhouses.

1253201 Yellow Ribbon Sticky Trap - 100 ft. x 6" Roll (2 lbs.) **\$29.50**



Pest Wizard Blue-Yellow Card Trap

A Trap With Two Special Colors – To Attract Even More Pests!

TARGET: The blue side will attract aphids and thrips. The yellow side attracts whitefly, hoppers, beetles, fruit flies, psyllids, etc.!

DESCRIPTION: Blue on one side, yellow on the other! These dual-duty traps will capture an array of pests using specific color wavelengths and MessyLess™ non-toxic adhesive that won't stick to your fingers! Each pack contains 4 rectangular traps, 8 hangers and instructions. Traps are weather resistant and measure 8" x 3.5".

SUGGESTED USE: Hang traps on branches in trees and roses. Hang on stakes near vegetable row crops, shrubs and container plants.

- For Monitoring: ≈1 trap/1,000 sq. ft.
- For Trapping: ≈1 trap/20-50 sq. ft.

1254201	Blue & Yellow Card Trap - 4 Pack	(.25 lb.)	\$8.99
1254202	Blue & Yellow Card Trap - 10 Pack	(.5 lb.)	\$16.00



Stiky™ Plant Stakes

Knock Out Those Pesky Little Fliers Around Your Plants!

TARGET: Whitefly, fungus gnats, thrips, midges and other flying insects.

DESCRIPTION: Provide around-the-clock protection from flying insects with these simple to use and effective adhesive traps. The bright yellow color lures insects in and the super-strong Stiky adhesive keeps them there. Remove the protective paper from the 2" x 7" plant stake and insert it into your pots or bedding. These traps are only coated with glue on one side; insert it into your soil with the adhesive side facing the plant. Insects will not see their dead comrades until it is too late to shy away and you will be spared the unsightly view of dead insects. This package comes with 10 traps to provide you with plenty of coverage.

SUGGESTED USE: For use indoors or outdoors in potted plants, containers or garden beds. Simply remove the protective paper coating and insert the Plant Stake, adhesive side toward the plant, into the soil on the edge of the pot.

1254320 Stiky Plant Stakes - 10 pack (.5 lb.) **\$3.95**



Stiky™ Strips Yellow Sticky Traps



Two-sided Yellow Sticky Trap For Aphids, Thrips, Leafminers, Whiteflies & More.

DESCRIPTION: This two-sided, non-gridded yellow sticky trap attracts aphids, thrips, leafminers, whiteflies and more. For use in gardens, nurseries, greenhouses or fields. Great for houseplants too! Wire hangers can also be used as stakes. Package Includes 9 - 3" x 5" Stiky Strips, 3 wire hangers/stakes and instructions.



1254301 Stiky Strips Yellow Sticky Traps - 9 Pack (.25 lb.) **\$5.49**

Blue Sticky Strips



Use Blue For Monitoring & Trapping A Wide Range of Thrip Species!

TARGET: Male and female Western Flower Thrips as well as other species of *Frankliniella*.

DESCRIPTION: Thrips find particular tone of blue extremely attractive. For best results, place just above crop canopy and use early in the season before pest populations grow. Monitor regularly and replace after 6 weeks of use or when surface is mostly covered or dirty. Complete instructions included. Traps feature no mess "dry touch" adhesive. Each pack includes 10 - 4" x 9 1/2" 2 sided traps and 10 twist ties.

SUGGESTED USE: If used for pest suppression in glasshouses: At least 1 trap per 10 sq. meters, adjusting amount as needed for severity of problem. If used just for monitoring pest populations: Use 1 trap per 100-1000 sq. meters depending on the crop and/or the size of the glasshouse.

1254401 Blue Sticky Traps - 10 pack (.25 lb.) **\$9.00**
1254402 Blue Sticky Traps - 10 pack (bundle of 5) (.25 lb.) **\$43.00**

BioCare® Gnat Stix

An Effective Treatment For A Variety Of Small Pests Infesting Household Plants!

TARGET: Fungus gnats, aphids, plant lice & more!

DESCRIPTION: Effective for even the worst infestations of fungus gnats. Use one Gnat Stix for each infested plant in adjacent rooms or hallways.

SUGGESTED USE: Peel release paper on yellow sticky sheet. Slide stick through the holes in the sticky sheet. Use one sticky strip on each stick. Place in the soil of plants. Avoid leaves coming in contact with sticky paper.



1280501 Gnat Stix - 12 Per Pack (.25 lb.) **\$6.65**
1280502 Gnat Stix - 12 Per Pack-Pack of 2 (1 lb.) **\$11.50**
1280503 Gnat Stix - 12 Per Pack-Pack of 4 (1 lb.) **\$20.50**

Sticky Traps

It's Easy To Monitor & Trap When You Know What You Have!

DESCRIPTION: These 4" x 7" traps reverse fold to capture insect pests on both sides and include a twist tie and punched hole for easy hanging. All natural and weatherproof.

Aphid/Whitefly Yellow Sticky Traps:

TARGET: Whitefly, aphids, leafhoppers, fungus gnats, spittlebugs, flies and more.

SUGGESTED USE: Greenhouses, orchards, row crops, barns and more. Hang or attach to stake approx. every 7 ft. at the end of each row or per tree. Use more for trapping.

Thrips/Leafminer Blue Sticky Traps:

TARGET: Thrips, leafminers.

SUGGESTED USE: Greenhouses, orchards, row crops, barns and more. Hang or attach to stake approx. every 7 ft. at the end of each row or per tree. Use more for trapping.

1254001 Package of 5 Yellow Traps (.25 lb.) **\$4.49**
1254101 Package of 5 Blue Traps (.25 lb.) **\$5.50**



Pest Wizard Mini Yellow Sticky Trap



The Popular Sticky Trap – Now In A Convenient Smaller Size!

TARGET: Thrips, whiteflies, aphids, fruit-nut-maggot flies, stinkbugs, flea beetles, hoppers, yellow-jackets, psyllids, cucumber beetles, olive fruit flies, midges, sharpshooters, true bugs, common nuisance flies and other beetles.

DESCRIPTION: Designed to visually attract insects with this specific and irresistible color, bugs are drawn in and then become hopelessly ensnared by the powerful, yet not messy, glue.

These stuck-on insects will then quickly succumb. This trap is clearly gridded on both sides for easy monitoring of which and how many insects are on your plants. The smaller profile (3 3/4" x 5") of Pest Wizard Mini Yellow Sticky Trap keeps it steadier in windy conditions than similar, larger traps. Adhesive can be cleaned off with soap and water.

SUGGESTED USE: Traps can be hung from tree branches, in greenhouses, on garden stakes, on lines above vegetable rows, on ornamental shrubs, on fences and on trellises.

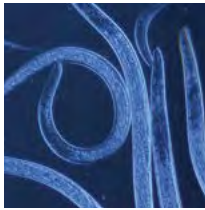
1254205 Mini Yellow Sticky Trap - 5 pack (.5 lb.) **\$4.49**
1254206 Mini Yellow Sticky Trap - 5 pack - bundle of 3 (.75 lb.) **\$12.00**
1254207 Mini Yellow Sticky Trap - 5 pack - bundle of 5 (1 lb.) **\$18.99**



BENEFICIAL NEMATODES

What Are Beneficial Nematodes?

Beneficial Nematodes are live, microscopic organisms (non-segmented roundworms) that occur naturally in soil throughout the world. They are parasitic to insect pests that typically have a developing (larval or pupal) stage of life in the soil; however, they have been known to also parasitize above ground stages of adults, nymphs and larvae.



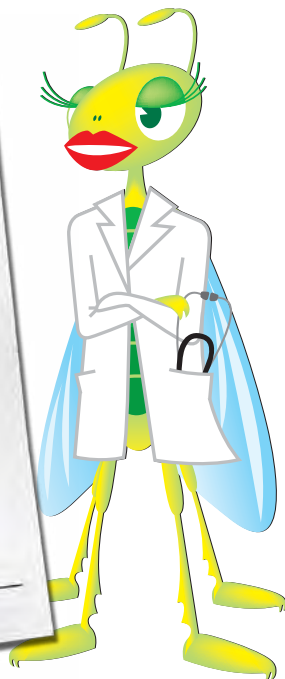
How Do Beneficial Nematodes Work?

1. Beneficial Nematodes are applied to soil where they locate pests, enter through orifices or body walls and infect pests with toxic bacteria. Once inside, it is not the nematode that actually kills the pest, but bacteria inside the nematode.
2. The bacteria kills pests within 24 to 48 hours. Beneficial Nematodes then feed on bacteria and host insect tissue. Adult stages of Beneficial Nematodes produce hundreds of thousands of new juveniles.
3. New infective juveniles emerge loaded with "pest killer" bacteria and begin their search for a new host. As long as there is a suitable host, the Beneficial Nematodes will continue to parasitize.



Why Do I Need Beneficial Nematodes?

1. To control grubs and over 200 other pests.
2. They are your first line of defense against pests that develop in the soil.
3. They can also be used as a foliar drench for severe infestations.



When & How Often Should Beneficial Nematodes Be Applied?

Use nematodes whenever larvae or grubs are present. As pest larvae feed on plant roots beneath the soil surface, severe damage can be done before you realize you have a pest dilemma. If adult insects are present, their eggs, nymphs, larvae and pupa will soon be developing.

FOR TREATMENT: Apply nematodes every 2 weeks until pest infestation subsides.

FOR PREVENTION: Apply at least 2-4 times per year in the spring, summer, fall and winter as needed.

How Do I Apply Beneficial Nematodes?

Since nematodes are alive and sensitive to light, apply them early in the morning or at dusk. It's easy to apply nematodes. Before applying, make sure the soil is moist.

1. Simply mix **ready-to-use Beneficial Nematodes** with water.
2. Apply pre-dawn or at dusk with a hose end sprayer, backpack sprayer, pump sprayer or watering can. Lightly water again after application.
3. Keep area moist for at least 2 weeks.



Applying Beneficial Nematodes with a pump sprayer.

When Will I See Results?

Beneficial Nematodes are considered to be one of the most lethal parasites known to kill plant pests. Depending upon the pest(s) you are treating and the method of application, it can take from 2-30 days for you to see results.

It is important to remember that Beneficial Nematodes disintegrate pests from the inside out. You will not see dead insect bodies as you would with a chemical knockdown. Instead you will notice less and less of the pest(s) over time.

Like all insects and organisms, some nematodes will survive the winter in a dormant state; however, we recommend re-applying at least 2-4 times on an annual basis to ensure that your pests do not get out of hand again.

Chameleon Adaptable Hose End Sprayer

Perfect Application!

DESCRIPTION: Multipurpose sprayer

DESCRIPTION: Works great with Beneficial Nematodes. This affordable, easy-to-use, light-weight multi-purpose sprayer is perfect for applying your natural biologicals, fertilizers, amendments, insecticides, herbicides & fungicides.

SUGGESTED USE: Beneficial Nematode application.

1800006 1 Sprayer (2 lbs.) **\$14.75**



BENEFICIAL NEMATODES

NEMATODE VARIETY GUIDE

Choose Variety By Pest



- = NemAttack™ *Steinernema carpocapsae* (Sc)
- = NemAttack™ *Steinernema feltiae* (Sf)
- ▲ = NemaSeek™ *Heterohabditis bacteriophora* (Hb)

Pest	Variety	Pest	Variety	Pest	Variety	Pest	Variety
Ants (Queen)	▲	Chafer - European, masked	▲	Fungus Gnats	■ ▲	Root Maggots	■
Armyworm	●	Citrus Root Weevil	▲	Gall Midges	▲	Root Weevils	▲
Artichoke Plume Moth	●	Codling Moth	● ■	Grape Root Borer	▲	Scarabs	▲
Asparagus Beetle	▲	Colorado Potato Beetle	▲	Grubs	▲	Scarids	■
Bagworm	▲	Corn Earworm	● ■	Humpbacked Flies	■	Shore Flies	■
Banana Moth	▲	Corn Rootworm	▲	Japanese Beetles	▲	Sugarcane Stalk Borer	▲
Banana Weevil	▲	Cotton Bollworm	●	Large Pine Weevil	●	Strawberry Root Weevil	●
Beet Armyworm	● ■	Cranberry Girder	●	Leaf Miners	● ■	Sweet Potato Weevil	■ ▲
Berry Root Weevil	▲	Cranberry Root Weevil	▲	May/June Beetles	▲	Thrips	■
Bill Bug	▲	Cucumber Beetle	● ■ ▲	Mint Flea Beetle	●	Ticks	■ ▲
Black Cutworm	● ■	Cutworm	●	Mint Root Borer	●	Tobacco Budworm	●
Black Vine Weevil	● ▲	Fall Armyworm	●	Mole Crickets	●	Tobacco Cutworm	■
Bluegrass Weevil	●	Flea Beetles	▲	Navel Orangeworm	●	Webworms	●
Borers - Iris, Tree, Vine	▲	Fleas (Larvae, Pupae)	●	Onion Maggots	■	Wireworm	●
Cabbage Maggot	■	Fleas - Adult	▲	Pill Worm	■	Wood Borers	●
Carrot Weevil	▲	Fly Larvae	●	Raspberry Crown Borer	■		
Caterpillars	●	Fruit Flies	● ■	Roaches-American, Asian, German	●		

For information about termite control, please call.

SIZE & COVERAGE CHART

Size	Quantity	Coverage
1/2 Garden	≈5 million nematodes	Treats ≈1,600 sq. ft.
Garden	≈10 million nematodes	Treats ≈3,200 sq. ft.
Farm	≈50 million nematodes	Treats ≈1 acre
Small Ranch	≈250 million nematodes	Treats ≈5 acres
Large Ranch	≈500 million nematodes	Treats ≈10 acres



See website for best pricing!

Free shipping in the contiguous 48 United States. 2nd day shipping required for Backyard, Garden, Farm sizes. Expedited shipping available for an additional fee. The Small and Large Ranch size requires next day shipping during summer months, 2-day shipping otherwise. Orders ship Monday - Wednesday; excluding holidays.

Cannot be shipped to the following states: HI, AK, PR, VI, GU, AS, PW

SINGLE SPECIES		
● NemAttack <i>Steinernema carpocapsae</i>		
SKU	Size	Price
1220319	1/2 Garden	\$36.00
1220320	Garden	\$42.95
1220321	Farm	\$72.00
1221702	Small Ranch	\$198.00
1221705	Large Ranch	\$270.00

SINGLE SPECIES		
■ NemAttack <i>Steinernema feltiae</i>		
SKU	Size	Price
1220309	1/2 Garden	\$36.00
1220310	Garden	\$42.95
1220311	Farm	\$72.00
1221701	Small Ranch	\$198.00
1221704	Large Ranch	\$270.00

SINGLE SPECIES		
▲ NemaSeek <i>Heterohabditis bacteriophora</i>		
SKU	Size	Price
1220300	1/2 Garden	\$36.00
1220301	Garden	\$42.95
1220302	Farm	\$72.00
1221703	Small Ranch	\$198.00
1221706	Large Ranch	\$270.00

COMBO PACK		
● ▲ Sc NemAttack & Hb NemaSeek		
SKU	Size	Price
1220331	Garden Combo	\$60.00
1220332	Farm Combo	\$125.00
1221699	Sm. Ranch Combo	\$340.00
1220335	Lg. Ranch Combo	\$655.00

COMBO PACK		
■ ▲ Sf NemAttack & Hb NemaSeek		
SKU	Size	Price
1220333	Garden Combo	\$60.00
1220334	Farm Combo	\$125.00
1221700	Sm. Ranch Combo	\$340.00
1220336	Lg. Ranch Combo	\$655.00

TRIPLE THREAT COMBO		
● ■ ▲ Sc NemAttack, Sf NemAttack & Hb NemaSeek		
SKU	Size	Price
1220328	1/2 Garden Combo	\$61.00
1220330	Garden Combo	\$80.00
1220329	Farm Combo	\$142.00
1220327	Sm. Ranch Combo	\$405.00
1220326	Lg. Ranch Combo	\$700.00

FLY ELIMINATORS



WHAT ARE FLY ELIMINATORS?

The Sensible Alternative To Pesticides

Fly Eliminators are tiny $\approx 1/8$ " beneficial insects that parasitize flies in their developing pupal (cocoon) stage, before they can hatch into annoying disease-carrying adult flies. Scientifically they are referred to as Fly Parasites or Fly Parasitoids.



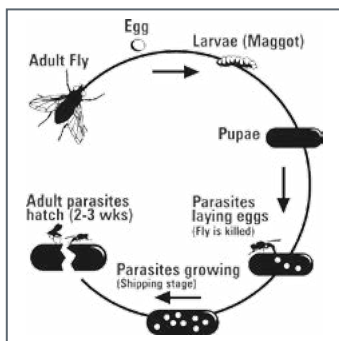
Adult Fly Eliminator emerging from fly pupa.

Fly Eliminators will only parasitize fly pupae and will not bother horses, cattle, livestock, pets, plants, or you.



HOW DO FLY ELIMINATORS WORK?

Adult female flies lay their eggs in decaying organic matter, especially manure. Only a few hours later, these eggs develop into microscopic larvae (maggot stage) and burrow down into the manure. The maggots grow until they form a pupa (cocoon stage).



Life cycle of the fly parasite.

Then, the female Fly Eliminators seek out the fly pupae and begin to deposit their eggs inside. The eggs grow into larvae that feed on the developing fly, stopping the adult pest fly from hatching.

Fly Eliminators reproduce in about 21 days, constantly strengthening the Fly Eliminator population. Pest flies reproduce at a faster rate than our Fly Eliminators, so we recommend they be replenished on a regular basis, approximately every 2-4 weeks.

Philadelphia Park Recommends ARBICO's Fly Eliminators

"I was introduced to Fly Eliminators 30 years ago at a Racetrack Symposium and have been using them ever since. They've done a fabulous job and I have recommended Fly Eliminators to many people! They're a great product! Their Fly Eliminators Program was green before green was popular. Without a doubt, this is the way to go. ARBICO Organics is a very good company!"



– Roy Smith, Former Track Manager of Philadelphia Park

WHO USES FLY ELIMINATORS?

Our customers are all types of horse owners, from the single horse owner to large breeder, including racetracks and farms with many types of animals.

- Boarding Facilities
- Dairy Facilities
- Stables
- Aquariums
- Feed Lots
- Race Tracks
- Poultry
- Kennels
- Equestrian Hobbyists
- Urban Farmers
- Zoos
- Plus more

Please be sure to account for all of your livestock and other animals. Call for special reduced pricing for large facilities, mixed livestock areas and/or custom programs.

HOW DO I USE FLY ELIMINATORS?

Your Fly Eliminators will arrive in a clear plastic bag which contains parasitized fly pupae in wood shavings.

1. When your Fly Eliminators arrive, check for any signs of hatching.
2. Store in a warm, dry place. Once the Fly Eliminators begin to hatch simply disperse them near breeding sites: manure piles; under water troughs; under bedding; corners of pens and feeding sites.
3. Cover with dirt or manure to protect your Fly Eliminators. They will then start to burrow down and search for fly pupae to lay their eggs in.
4. Repeat every 2-4 weeks.



Fly Eliminators and wood shavings in packaging.

Use Your Fly Eliminators the RIGHT Way:

RIGHT Time

- Start your Fly Eliminators Program before or as soon as your infestation starts
- Release once you have 3 nights in a row of 40°F temperatures
- If you start late, just add more Fly Eliminators to your order

RIGHT Place

- Release at the end of the day – they're nocturnal
- Release near manure, urine soaked areas, feeding, watering & bedding areas

RIGHT Amount

- The more Fly Eliminators, the fewer the flies

RIGHT Schedule

- Shipments every 2-4 weeks are best to break the fly lifecycle

Churchill Downs Chooses ARBICO Organics

"We started using Fly Eliminators back in 1983. We are still using them today. It's a wonderful product and a successful program that everyone should use! All the big corporations are going green and we were one of the first to go green by using Fly Eliminators."

– Butch Lehr, Former Track Manager of Churchill Downs



Del Mar Thoroughbred Club Relies On ARBICO Organics

"The Del Mar Thoroughbred Club horse racing facility has been using Fly Eliminators from ARBICO since 1985 with great success. Each summer nearly 2,000 horses and hundreds of thousands of race goers converge on this community making fly control a top priority for both the Del Mar Thoroughbred Club and the community that relies so heavily on the agricultural product we promote. We appreciate the years of timely and professional service ARBICO Organics has provided and look forward to many more good years ahead."

– Joe Harper, Chief Executive Officer of Del Mar



SPECIAL PRICING

Only \$19.95
Per Shipment for 2-5 Horses
USPS Shipping Included in Prices!

Number of Horses/Animals	Suggested Units†	Price Per Shipment
1	1/4 Unit	\$16.95
2 - 5	1/2 Unit	\$19.95
6 - 10	1 Unit	\$29.95
11 - 15	1 1/2 Units	\$39.95
16 - 20	2 Units	\$51.95
21 - 25	2 1/2 Units	\$64.95
26 - 30	3 Units	\$75.95
31 - 35	3 1/2 Units	\$86.95
36 - 40	4 Units	\$96.95
41 - 45	4 1/2 Units	\$107.95
46 - 50	5 Units	\$110.95
51 +	Please Call 1-800-827-2847	

Order Your Fly Control Program Today!

†These are units of measurement, not warranties or guarantees of performance. The total seasonal cost of Fly Eliminators depends on the recommended number of shipments which may be different than what competitors may recommend. We recommend releasing a shipment every 2-4 weeks throughout the fly season, but releases ranging from 1-6 weeks are not uncommon. Customer experiences may vary. The quantity required and frequency of application can differ according to region, size and condition of property or stables, severity of fly problem, neighbors, manure management, number of animals and start date of program. All warranties, express or implied are disclaimed. One unit bag shown.
© 2016 Arizona Biological Control, Inc.

MANURE & ODOR CONTROL

MANURE MANAGEMENT

EM•1® Microbial Inoculant



Increase & Maximize Your Plants' Absorption Of Nutrients!

TARGET: Accelerate decomposition & reduce odors.

DESCRIPTION: Consists of healthy bacillus from naturally fermented live microorganisms. Works with beneficial microbes in the area it is applied to, creating a synergy among microorganisms and larger forms of life including insects, worms, pets, livestock and people.

SUGGESTED USE: 2 tsp./gal. water, 1 qt./250 gal. water, 1 qt./acre up to 8 times/yr.



1202099	12 oz.	(1.25 lbs.)	\$14.99
1202101	1 Quart	(3 lbs.)	\$23.99
1202102	1 Gallon	(10 lbs.)	\$63.00
1202103	5 Gallons	(53 lbs.)	\$243.00
1202104	55 Gallons*		CALL

*Call for freight quote.

Cannot be shipped to the following states: HI, PR, VI

ODOR CONTROL

SCD Probiotics OdorAway



Remove Various Odors With Beneficial Bacteria!

TARGET: Odors caused by organic materials in livestock operations, poultry pens, water treatment plants, composting operations and barns. Also takes care of noxious household odors such as pet, smoke, mold, drains and restrooms odors.

DESCRIPTION: This microbial inoculant is OMRI listed, approved for certified organic agriculture and is compatible with all organic agriculture amendments. Made from naturally fermented live co-existing microorganisms, this easy-to-use concentrate breaks down organic matter and helps neutralize odors. It contains a special blend of lactic acid bacteria which helps break down compounds associated with unpleasant odors through microbial digestion of ammonia, hydrogen sulfide and other organic compounds. It can be used to help improve surrounding air quality, reduce energy usage in various treatment systems and their breakdown of sludge and other organic residues.

SUGGESTED USE: Use approximately 2-5 Tbsp. per gallon of water. Add the desired amount to a clean spray bottle, dilute for specific application and use within 3-4 days. For full application guide visit www.arbico-organics.com. Store concentrate in cool and dry place, do not freeze. Prior to application on fabric, test a small amount of product on an inconspicuous area.

1202702	SCD Odor Away - 1 Liter	(3 lbs.)	\$13.50
1202703	SCD Odor Away - 1 Gallon	(10 lbs.)	\$43.00



BIOLOGICAL CONTROL

Beneficial Nematodes



Add Beneficial Nematodes For Ultimate Fly Control!

TARGET: Fly maggots and other subterranean pests.

DESCRIPTION: These live microscopic organisms (non-segmented round worms) occur naturally in soil throughout the world and are parasitic to fly maggots and other subterranean pests. Upon application, they will seek out and enter maggots through body openings. Once inside, the nematode releases bacteria which kill the host maggot within 24 - 48 hours. The bacteria create a food source for the nematodes to reproduce. As the food resources within the dead pest become scarce, the nematodes exit and immediately begin searching for a new host.



SUGGESTED USE: Apply nematodes to "hot spot" areas where flies are breeding such as compost and manure piles, around manure and urinating sites, and watering and feeding areas using a watering can, hose end, backpack or pump sprayer or through irrigation or misting systems. Use along with Fly Eliminators and Holistic Fly Defense for ultimate fly control!

1220319	NemAttack Beneficial Nematodes - 1/2 Garden	\$36.00
1220320	NemAttack Beneficial Nematodes - Garden	\$42.95
1220321	NemAttack Beneficial Nematodes - Farm	\$72.00
1221702	NemAttack Beneficial Nematodes - Small Ranch	\$198.00
1221705	NemAttack Beneficial Nematodes - Large Ranch	\$379.00

* See page 17 for free shipping details.

Cannot be shipped to the following states: HI, AK, PR, VI, GU, AS, PW

REPELLENTS

Aloe Herbal Horse Spray

Contains A Natural Sunscreen!

TARGET: Repel and kill flies and other insect pests.

DESCRIPTION: This all-purpose fly repellent combined with natural coat conditioners and sunscreens is incredibly effective. This all natural, non-irritating spray will aid in the control of flies, mosquitoes, gnats and other insect pests.

SUGGESTED USE: Concentrated formula available in quart and gallon sizes. Dilutes 5 to 1 with water or 3 to 1 for tougher cases.

ACTIVE INGREDIENTS: Citronella, eucalyptus, and cedarwood in a combination of aloe and mineral oil that conditions the coat.

1108901	1 Quart Concentrate	(3 lbs.)	\$25.00
1108902	1 Gallon Concentrate	(10 lbs.)	\$74.50





Biting Fly Trap

No Poisons! No Baits! No Electricity!

TARGET: Biting flies, stable flies, black flies and bottle flies.

DESCRIPTION: As discovered by Dr. D. E. Williams of the USDA, biting flies are attracted to sunlight as it shines through a particular type of fiberglass. A cylinder has been created of this fiberglass and coated with a clear sticky substance. They will be drawn in by the glass but unable to escape the stickiness. One trap can catch up to 5,000 flies!



Each package contains the following: 1 fiberglass cylinder, 1 wooden stake, 2 brass fasteners, 2 giant paperclips, 1 sticky sleeve, 1 replacement sleeve (additional sleeves can be purchased as needed) and complete instructions. Weight - 1.5 lbs. Box size - 12 1/4 x 26 1/2 x 1 1/2 inches.

SUGGESTED USE: Any place biting flies are a problem, i.e., stables, kennels, zoos, compost piles, backyards, swimming pools, golf courses and beaches.

1256020	Biting Fly Trap - Pack of 1	(2 lbs.)	\$18.99
1256021	Biting Fly Trap - Pack of 3	(5 lbs.)	\$48.95
1256022	Biting Fly Trap - Pack of 5	(10 lbs.)	\$75.50
1256023	Replacement Sleeves White - Pack of 1	(1 lb.)	\$3.95
1256024	Replacement Sleeves White - Pack of 3	(2 lbs.)	\$8.25
1256025	Replacement Sleeves White - Pack of 5	(2 lbs.)	\$12.50
1256026	Replacement Sleeves White - Pack of 10	(5 lbs.)	\$22.50

Insect-A-Peel Trap Systems

This Long Lasting Trap Is Perfect Around Barns!

TARGET: Flies and other flying pests.

DESCRIPTION: The revolutionary Insect-A-Peel Trap (IPS) uses modern science to trap moths and a host of other flying insects. Its bright yellow color and state-of-the-art tubular design attracts pests from all directions during daylight hours. In addition, this design, which uses a 3" plastic pipe to hold the tube of yellow sticky plastic, is easy to set up, and will last 20-25 weeks. Every 3-7 days, just roll up the filled surface, exposing fresh yellow sticky plastic to attract the insect pests. You do not have to dispose of anything until the roll is full of dead insects!



SUGGESTED USE: Each large trap unit will treat approx. 2500 sq. ft. area. Its durable all-steel stand (3' wide x 3' tall) is weatherproof and windproof. Each sticky roll measures 50' x 6".

The smaller **Hanging Insect-A-Peel Trap** is easy to hang in barns, stalls, patios, on trellises or in other small areas. It contains a smaller 1" diameter pipe and is 15" long. The Insect-A-Peel Hanging Trap will last a season with normal advancement every 3-7 days.

1261201	1 Large IPS	(9 lbs.)	\$97.00
1261301	1 Hanging IPS	(3 lbs.)	\$54.00

Visit www.arbico-organics.com for replacement spools & parts.



ARBICO Organics™ Solar Fly Trap



Captures Hordes Of Flies!

TARGET: Adult flies.

DESCRIPTION: This built-to-last, rust-free, heavy duty trap goes anywhere to reduce existing fly populations, fly blooms and migrant flies. Used by gardeners, pet owners, kennels, horse owners, breeding and training facilities, dairies, poultry and swine facilities, feedlots and other places where flies are a problem. Dimensions: 12" dia. x 10.5" tall.

SUGGESTED USE: Mix the yeast bait with water and pour into container at the bottom of the trap. Within seconds flies are lured into the trap. They enter into the confinement chamber and dehydrate from exposure to the sun. When it begins to fill up with flies, just empty, hose out and reset with new bait. Comes with one packet of bait, which is enough for approx. 5 weeks. Use 1 trap for 5-10 horses.

1256001	ARBICO Organics Solar Fly Trap - Includes 1 Bait	\$86.00
1256002	ARBICO Organics Fly Bait for Solar Fly Trap	\$9.99
1256005	ARBICO Organics Solar Fly Trap - Includes 4 Baits	\$108.00
Volume Pricing!		
1259990	ARBICO Organics Solar Fly Trap - 2 Pack	\$160.00
1259991	ARBICO Organics Solar Fly Trap - 3 Pack	\$225.00
1259992	ARBICO Organics Solar Fly Trap - 4 Pack	\$278.00
1259994	ARBICO Organics Solar Fly Trap - 6 Pack	\$405.00

*FREE SHIPPING via ground ONLY.

ARBICO Organics™ Holistic Fly Defense

A Safe & Effective Insect Repellent For Horses, Livestock & Pets!

TARGET: Rid your horses of biting flies.

DESCRIPTION: Holistic Fly Defense is a long lasting herbal blend of natural botanicals that repel insects. This non-staining formula will leave no oily residue.

SUGGESTED USE: Dilute 1 part Holistic Fly Defense in 5 parts water. For more stubborn cases, dilute 1 part in 4 parts water.

ACTIVE INGREDIENTS: Lemongrass oil, geranium oil, geraniol, citronella oil, sodium lauryl sulfate, potassium sorbate.

1108702	32 oz. Concentrate	(3 lbs.)	\$28.00
1108707	1 gal. Concentrate	(9 lbs.)	\$80.00



GRASSHOPPER CONTROL



Semaspore™ Bait



Rid Yourself Of Grasshoppers Once & For All With This OMRI Certified Insecticide!

TARGET: Grasshoppers

DESCRIPTION: This easy-to-use bait consists of wheat bran coated with *Nosema locustae*, a naturally occurring single celled protozoan that is deadly to grasshoppers but will not harm other living species. The wheat bran, a favorite of grasshoppers, acts as an irresistible lure and, once ingested, the *Nosema locustae* immediately begins killing the grasshopper. Infected grasshoppers will soon begin eating less; an estimated 75% less than healthy ones. Within 2-4 weeks, 50% of the population should be dead. Grasshoppers are enthusiastic cannibals, so you may not see many dead grasshoppers. When they eat their diseased comrades, they become infected as well. This extends and spreads the insect control thanks to the insects themselves. For best results, use when insects are young (1/2 - 3/4" long). Heavy infestations may require repeat applications.



SUGGESTED USE: Hand broadcast or use a "Whirly Bird" spreader to apply 1 pound per acre when grasshoppers are nymphs (majority 1/2 - 3/4" size). Treat hatching beds (grassy areas of unbroken ground) where nymphs are seen. Use before expiration date. If kept refrigerated at 40°F, add 30 days to expiration date. If kept frozen at 15°F, add 60 days to expiration date.

1215001	1 lb. Bag	(2 lbs.)	\$20.25
1215005	5 lb. Bag	(6 lbs.)	\$46.60
1215055	50 lb. Bag	(51 lbs.)	\$107.00
1215060	Pallet (20-50 lb. Bags)		CALL

Cannot be shipped to the following states: AL, CT, DE, DC, FL, GA, HI, IL, IN, KY, MD, MA, ME, MI, NH, NJ, NY, NC, OH, PA, PR, RI, SC, TN, VT, VA, WV, WI

Garlic Barrier



Protect Your Plants With Garlic!

TARGET: Ants, aphids, armadillos, armyworms, beetles, birds, caterpillars, deer, grasshoppers, leafhoppers, leafminers, loopers, mealybugs, mites, rabbits, sawflies, whiteflies and wireworms.

DESCRIPTION: Made from 10% garlic extract, when absorbed by plants it helps to protect them from pest insects. The garlic odor diminishes about 30 minutes and will not alter taste.

SUGGESTED USE: Apply weekly. For nematode and grub control, spray seeds before planting. For foliar applications, apply before noon for best results. Mix at a rate of 1 cup/ 10 cups water to cover about 15,000 sq. ft.



1452602	1 Quart	(3 lbs.)	\$11.99
1452603	1 Gallon AG+	(10 lbs.)	\$73.80

Call for larger sizes.

Cannot be shipped to the following states: AK, AL, AR, DC, IA, ID, KS, KY, LA, MS, ND, SC, WA, WV, WY

Nolo Bait

Put An End To Destructive Grasshoppers & Crickets!

TARGET: Grasshoppers and mormon crickets.

DESCRIPTION: Approved for organic production by NOP, this bait is made from flaky wheat bran that is coated with *Nosema locustae*. The wheat bran serves as a lure; adult insects find it irresistible. Once ingested by a grasshopper or cricket, *Nosema locustae* (a single-cell protozoa) creates a disease that is deadly to those specific insects but will not harm other living species. Infected insects will soon weaken and die; with the younger ones dying in as little as a week. As they weaken and die, grasshoppers will eat their dead comrades and become infected as well. *Nosema* works best when applied to younger stages of hoppers (1/4 - 1/2" long). Heavy infestations may require repeat applications.



SUGGESTED USE: When applying, do not allow product to come into contact with fruit or vegetables. For best results, use before 13 weeks after formulation. Apply to lawns and gardens at a minimum rate of 5 tsps. per 100 sq. ft. Apply by hand, by shaker can or spreader. Include a buffer zone around area to be treated.

1160000	1 lb. Bag	(2 lbs.)	\$20.60
1160001	5 lb. Bag	(6 lbs.)	\$51.75
1160002	10 lb. Bag	(11 lbs.)	\$64.98
1160003	25 lb. Bag	(26 lbs.)	\$115.00

Cannot be shipped to the following states: CT, DC, DE, HI, IL, IN, KY, LA, MA, MD, ME, MN, NH, NJ, NY, ND, PA, PR, RI, VT, VA, WV, WI, MS, AS, GU, MP



Fleas

The insects forming the order *Siphonaptera*. Wingless, with mouthparts adapted for piercing skin and sucking blood, they are external parasites. They feed off the blood of mammals and birds.



Ticks

Small arachnids in the order *Parasitiformes*. Along with mites, they make up the subclass *Acarina*. Ticks are ectoparasites and live off the blood of mammals, birds and sometimes reptiles and amphibians.

Flea 'n Tick B Gone™

Fast Acting And Easy-To-Use!

TARGET: Natural solution for your pets.

DESCRIPTION: This professional strength, enzyme based formula has been proven to effectively remove fleas, ticks, lice and other pests from a variety of pets without the use of harmful pesticides. Enzymes kill the fleas and ticks by dissolving their exoskeletons.

SUGGESTED USE: Simply apply directly to your pet's fur, wait 10-30 minutes (depending on level of infestation), lather and rinse with warm water.



1452501	16 oz. RTU	(2 lbs.)	\$17.98
1452502	1 Gallon	(10 lbs.)	\$63.00

Electronic Flea Trap

Great Indoor Flea Control!

TARGET: Monitors and captures fleas.

DESCRIPTION: Each capture pad lasts for approx. 3 months or until filled with up to 10,000 fleas.

- Excellent flea control, no toxic chemicals!
- Light and heat attracts fleas 24 hours a day.
- Draws fleas from up to 25 feet away.
- 6" x 5" capture pad holds up to 10,000 fleas.
- Attractive, durable, patented design.



SUGGESTED USE: 1 trap per 2-3 dogs depending on size.

1280101	Flea Trap - 1 Unit	(1.2 lbs.)	\$17.50
1280102	Capture Pads (3 Pack)	(.1 lb.)	\$6.50
1280103	Flea Trap - 1 Unit (Pack of 3)	(3 lbs.)	\$45.00
1280106	Capture Pads 3 Pack (Pack of 3)	(.25 lb.)	\$18.75

Beneficial Nematodes

Combo packs of NemAttack & NemaSeek are your #1 defense against eggs and developing stages of fleas and ticks. Use these two varieties of beneficial nematodes for your most comprehensive control.



See pages 16-17 for more information.

Essentria™ G Granular Insecticide

A Granular That Handles A Handful Of Outdoor Pests!

TARGET: Ants, bermuda grass mites, centipedes, chiggers, chinch bugs, clover mites, cockroaches, crickets, earwigs, fall armyworms, fleas, leafhoppers, millipedes, sowbugs/pillbugs, and other insect pests.

DESCRIPTION: This quick and long-lasting natural granular insecticide uses essential botanical oils clove, thyme and wintergreen to treat various pests. Easy to use outdoors on landscapes, turf, building facilities and around organic operations, sensitive areas such as schools, and in aquatic environments.

SUGGESTED USE: Use with a hand spreader. For treatments around buildings, apply uniformly a band about 5-10 ft. wide. For landscapes and turf, use around 3-5 lbs./1000 sq. ft. Water in, applying about 1/8 in.- 1/4 in. of water without puddling. For ant mounds, use about 1-2 tsp./nest. For red imported fire ants, use around 1/2 cup/nest and make a 2 ft. band around nest.



1273050	Essentria G Granular Insecticide - 22 lbs.	(25 lbs.)	\$67.50
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JAPANESE BEETLE CONTROL



Photo Credit: UNL Entomology Department.

Where Are Japanese Beetles Found?

Japanese Beetles are native to Japan. They were first found in the United States in 1916 in New Jersey and it is believed they arrived before inspections of commodities entering the country were required. Since then, they have spread to many states in the United States including: AK, AL, CO, CT, FL, GA, IA, IL, KS, KY, ME, MI, MN, MO, MS, MT, NC, ND, NJ, NY, OH, OK, PA, RI, SC, SD, TN, UT, VA, VT, WI, WV. If you are unsure if Japanese Beetles have invaded your county, please contact your County Extension Agent to find out.

ADULT BEETLE CONTROL

Monterey 70% Neem Oil



Effective Against Indoor & Outdoor Insect Pests & Fungal Diseases!

TARGET: Use as an insecticide/miticide and/or fungicide on a wide range of ornamental plants, vegetables, trees and shrubs, as well as fruit and nut crops.

DESCRIPTION: **Insecticide/Miticide Use:** Controls spider mites, aphids, whitefly, scale, beetles, leafrollers and other insect pests. **Fungicide Use:** Effective against powdery mildew, black spot, downy mildew, anthracnose, rust, leaf spot, botrytis, needle rust, blights and *Alternaria*.

SUGGESTED USE: **Insecticide/Miticide Use:** Mix rate: 1-2 oz./gallon of water. Thoroughly spray all plant surfaces (including the undersides of leaves) until wet. **Fungicide Use:** Apply every 7-14 days; for heavy infestation, apply every 7 days. Use 1 oz./gallon of water & thoroughly spray all plant surfaces until wet. Apply on a 7-14 day schedule until control is achieved.

1555614 1 Pint (2 lbs.) **\$19.90**

Cannot be shipped to the following states: AR, DC, KS, LA, MS, ND, SD



PyGanic Crop Protection EC 1.4



Our Most Powerful Broad-Spectrum Insecticide!

TARGET: Approved for use against more than 40 insects on more than 200 fruits and vegetables.

DESCRIPTION: This natural extract of **chrysanthemums** contains **pyrethrum**.

SUGGESTED USE: Use on all indoor and outdoor crops and livestock facilities where barn spray systems exist. Use one part Pyganic to 13 parts water; apply from 1/2 to 2 quarts per acre. Use with sufficient Citric Acid to lower pH to 5.5-7.



1288604 1 Quart (3 lbs.) **\$70.00**
1288605 1 Gallon (9 lbs.) **\$245.50**

Cannot be shipped to the following states: PR

BIOLOGICAL GRUB CONTROL

Milky Spore Powder



Specific, Long Lasting Larval Control.

TARGET: Japanese beetle grubs.

DESCRIPTION: Contains *Bacillus popilliae* bacterium, lethal to soil-borne grub stages of Japanese beetles. Grubs that normally feed on roots of grass and vegetables will ingest the bacterium which will cause death in about 1-3 weeks. Grubs decompose and re-release bacteria spores. The spores can remain in the soil for about ten years, and in some cases up to 20 years. In warmer climates, control can occur in 1-3 years (after one application) and in cooler climates, 3-5 years. Can apply with other fertilizers, will not harm animals and can be applied to food crops. For best results, apply with NemaSeek Beneficial Nematodes, which will aid in spreading the bacterium to grubs. Store in a cool dry place to maintain shelf life.

SUGGESTED USE: Use All-Purpose Dispenser Tube for easy application. White chalk carries the bacterium, and the resultant treated area should resemble a checkerboard. Water within about 48 hours for about 15-20 minutes to permeate into soil and do not mow or rake until thoroughly soaked.

Apply about 1 tsp., every 4 ft., in rows 4 ft. apart. 10 oz. covers ≈2,500 sq. ft., 40 oz. covers ≈1/4 acre, 50 lbs. covers ≈4.5 acres.

1216001 10 oz. - Covers ≈2,500 sq. ft. (2 lbs.) **\$28.60**
1216040 40 oz. - Covers ≈1/4 acre (4 lbs.) **\$83.50**
1216050 50 lb. Drum* - Covers ≈4.5 acres (57 lbs.) **\$1,399.00**
1216052 All-Purpose Dispenser Tube (2 lbs.) **\$14.50**

*Call for freight quote.

Cannot be shipped to the following states: OR, WA



BONIDE® Thuricide - Liquid Concentrate

Bacillus thuringiensis var. kurstaki (Btk)

TARGET: Control of caterpillars.

DESCRIPTION: Use Thuricide to control caterpillars that are causing excessive damage. This easy to mix and easy-to-use liquid can be sprayed on any plant that you would like to protect. Can be used on fruits, vegetables, and ornamentals and can be used up to the day of harvest. Use weekly until the infestation is under control.



SUGGESTED USE: Easy-to-use for all spray applications, just mix 1-4 tsp. per gallon of water and apply to plants. It is important to target the underside and top of leaves to ensure good coverage. The mix rate you use is dependent on the level of infestation – there is no harm to the plant if you use a stronger mix rate.

1201201	8 oz. Concentrate	(1 lb.)	\$10.97
1201202	16 oz. Concentrate	(2 lbs.)	\$18.00

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

Monterey B.t.

An Easy-To-Use Solution For Controlling Caterpillars, Loopers & More!

TARGET: Cabbage looper, imported cabbage worm, tomato hornworm and bagworm, spring cankerworm, fall cankerworm, gypsy moth, tent caterpillar, elm spanworm and fall webworm on trees and ornamentals.



DESCRIPTION: This biological insecticide contains *Bacillus thuringiensis* subspecies *kurstaki* strain SA-12 solids, spores and Lepidopteran active toxins that when eaten by worms or caterpillars will halt feeding resulting in death. It will not effect birds, earthworms, or beneficial insects such as honeybees and ladybugs when used as directed.

SUGGESTED USE: Apply when infestations are in first stages, making applications every 5-7 days until control is reached. Apply directly to all sides of foliage that is being affected by target pest. Can be applied with a hand sprayer or a hose-end sprayer and can be used up to and on the day of harvest. Fully mix with water and continue agitation during applications and reapply if heavy rain occurs after application. For fruits and vegetables, mix about 2-3 fl. oz. per gallon of water for about 1,000 sq. ft. For ornamentals and trees, mix about 2 fl. oz. per 3 gallons of water.

1201210	Monterey B.t. Concentrate - Pint	(2 lbs.)	\$12.50
1201211	Monterey B.t. Concentrate - Quart	(3 lbs.)	\$19.75
1201212	Monterey B.t. Concentrate - Gallon	(10 lbs.)	\$70.00

Cannot be shipped to the following states: NC, PA, RI, WY



DiPel® DF Dry Flowable



Bacillus thuringiensis var. kurstaki

TARGET: Caterpillar larvae.

DESCRIPTION: DiPel DF is a dry, flowable formulation that is dust-free and easy to measure and mix. Easy-to-use in hose end sprayers, pump sprayers, as well as in irrigation and fertigation systems. Use a spreader-sticker (such as Therm X-70™ available online) for hard-to-wet crops.



SUGGESTED USE: 1/2 - 4 teaspoons per gallon of water depending on infestation.

1207005	DiPel DF - 1 lb.	(2 lbs.)	\$24.57
1207004	DiPel DF - 5 lb.	(6 lbs.)	\$99.00

Ships Via Ground Only

Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

Monterey Garden Insect Spray Concentrate & RTU



Insect Pests & Powdery Mildew Don't Stand A Chance With This Combination Of Spinosad & Insecticidal Soap!

TARGET: Control of foliage feeding worms (caterpillars), leafminers, thrips, fire ants and other pests as listed on label.

DESCRIPTION: This OMRI certified spray is made with Spinosad and insecticidal soap and is specially formulated for use in home environments such as gardens, lawns, ornamentals, shrubs, trees and non-commercial greenhouses. Not for use on plants being grown for sale or other commercial use, for commercial seed production, or for research purposes. The Spinosad in this spray works on insects' nervous systems, causing paralysis and death within 1-2 days. Because the insects are paralyzed, they may remain stuck on the plants and be mistaken for live insects; we recommend you check your plants 2-3 days after spraying to re-evaluate your control.



SUGGESTED USE:

For insect pests: Apply when listed pests are present. Thoroughly spray and drench all plant foliage until wet, taking care to include undersides of leaves. Repeat applications may be made as indicated in the "Use Restrictions" section of the label.

For powdery mildew: Apply when first signs of powdery mildew appear and repeat every 7-10 days. Complete coverage of plant is required for control.

Toxicity: This product is toxic to bees for 3 hours following treatment. This product is also toxic to aquatic invertebrates such as insects, crustaceans, mollusks and worms.

1257907	Monterey Garden Insect Spray RTU - 32 oz.	(2.5 lbs.)	\$12.50
1257900	Monterey Garden Insect Spray - 1 Pint	(2 lbs.)	\$16.99

Spray RTU cannot be shipped to the following states: MS, NE, NH, SD

Spray cannot be shipped to the following states: DC

TRAPS & LURES

Delta Trap

Catch Those Pests With Ease!

TARGET: Agriculture, horticulture, forestry, and backyard moth pests.

DESCRIPTION: This durable and economical single-use trap is great for monitoring and mass trapping a wide range of insects. With an easy-to-use fold-out design and interior grid pattern, insect counting is a breeze! No insert required; but can be combined with specific lures to selectively attract species. This trap is weather resistant and comes in a jaunty bright orange for easy field monitoring. Lures sold separately.



1230426 Delta Trap - Pack of 10 **\$21.50**

Large Plastic Delta Trap

This Work-Horse Of A Trap Will Last & Last!

TARGET: A wide variety of insects/ Lepidopteran pests.

DESCRIPTION: Designed to last, this first plastic trap is the most utilized and dependable trap design available. Used with pheromone lures for specific species, it will disrupt the mating cycle of pests and allow you to easily determine population estimates. Highly resistant to weather, it's easy to assemble and collapses flat for storage and re-use. Lures sold separately.



1230435 Large Plastic Delta Trap - Pack of 5 **\$35.00**

1230436 Large Plastic Delta Trap - Pack of 10 **\$66.50**

BioCare® Apple Maggot Trap W/Lures

Trap The Fruit Flies That Lay Their Eggs In Your Fruit!

TARGET: Adult Fruit Flies.

DESCRIPTION: The BioCare Apple Maggot Trap is designed to trap the adult fruit flies of the damaging apple maggot larvae with a pheromone lure. These fruit flies commonly attack apples, blueberries, hawthorn, pears, plums, and cherries by laying their eggs in the fruit during late spring to early summer, which then mature into the apple maggots. Lures last about 20 weeks (roughly one season).



Apple Maggot Lures

SUGGESTED USE: Begin using traps before fruiting, approximately, mid-April through harvest. To Monitor: Use all 3 traps in an orchard. To Control: Use 2 traps per dwarf tree and 3 traps per large tree.

1239203 Apple Maggot Lure (.25 lb.) **\$7.00**
1239205 Trap w/Lures - pack of 3 (1 lb.) **\$16.50**
1239206 Trap w/Lures - pack of 3 - case of 12 (8 lbs.) **\$173.50**

Wing Trap

You'll Get Options & Economy With This Trap!

TARGET: A wide variety of insects/ Lepidopteran pests.

DESCRIPTION: Arguably our most versatile trap, the eco-friendly, weather-resistant Wing Trap works well in most environments against countless insect pests. This trap offers a wide-open design, with space between top and bottom to allow larger insects access.



1230440 Scentry Wing Trap - Pack of 5 **\$19.00**

1230441 Scentry Wing Trap - Pack of 10 **\$35.00**

Gypsy Moth Trap

Moth Pests Disappear With This "Milk Carton" Trap!

TARGET: Adult male gypsy moths.

DESCRIPTION: Since its introduction to the United States in 1869, Gypsy Moths have become one of the most destructive pests ever seen in our ecosystems. In their caterpillar state they are voracious eaters and can defoliate, weaken and ultimately kill more than 300 species of trees and shrubs. Trapping and monitoring of adult moths (generally beginning in early summer) allows for population analysis and pesticide application management. This easy-to-assemble, hardy 1/2 gallon trap resembles a milk carton in size and shape and comes with a hood and hanger. Lures sold separately.



1230430 Gypsy Moth Trap - Pack of 5 **\$10.45**

1230431 Gypsy Moth Trap - Pack of 10 **\$18.99**

Codling Moth Trap By OakStump®

Detect & Trap Codling Moths.

TARGET: Codling Moth.

DESCRIPTION: This affordable pheromone lure and trap attracts male codling moths, a leading culprit in the destruction of fruit crops. Works great in orchards, gardens and greenhouses.

SUGGESTED USE: For monitoring use 1 trap every 5-10 acres. For trapping use 1 trap in every other tree.

1240301 Codling Moth Trap (.5 lb.) **\$8.25**



Lures By Pest

Your #1 Defense Against Insect Pests!

For best results, place traps prior to infestation. Use 1 trap per acre or less, 2-4 traps per 1-10 acres, 4-6 traps for 40-60 acres. For more than 100 acres, use 1 trap per 20 acres. For mass trapping, use 1-4 traps per acre or more depending upon cash value of plants.

Common Name	Scientific Name	Wing	Delta	LPD	GM	Pack 5	Pack 10	SKU
Almond Moth	<i>Cadra cautella</i>	W	D	LPD		\$13.95	\$24.75	1230058
Armyworm	<i>Pseudaletia unipuncta</i>	W		LPD		\$13.95	\$24.75	1230005
Beet Armyworm	<i>Spodoptera exigua</i>	W		LPD		\$13.95	\$24.75	1230059
Blueberry Leafroller	<i>Sparaanothis sulfureana</i>		D			\$13.95	\$24.75	1230060
Cabbage Looper	<i>Trichoplusia ni</i>	W		LPD		\$13.95	\$24.75	1230008
Clearwing Borers:								
Banded Ash Borer	<i>Podosesia aureocincta</i>	W		LPD		\$13.95	\$24.75	1230012
Peachtree Borer	<i>Synanthedon exitiosa</i>	W		LPD		\$13.95	\$24.75	1230015
Rhododendron Borer	<i>Synanthedon rhododendri</i>	W		LPD		\$13.95	\$24.75	1230016
Codling Moth - 10x	<i>Cydia pomonella</i>	W		LPD		\$13.95	\$24.75	1230017
Cranberry Gridler/Sod Webworm	<i>Chrysoteuchia topiaria</i>	W		LPD		\$13.95	\$24.75	1230019
European Corn Borers:								
Iowa Strain	<i>Ostrinia nubilalis</i>	W				\$13.95	\$24.75	1230022
New York Strain	<i>Ostrinia nubilalis</i>	W				\$13.95	\$24.75	1230023
Fall Armyworm	<i>Spodoptera frugiperda</i>	W				\$18.99	\$34.00	1230206
Fruittree Leafroller	<i>Archips argyrospilus</i>	W				\$14.85	\$26.99	1230107
Gypsy Moth	<i>Lymantria dispar</i>		D		GM	\$14.85	\$26.99	1230110
Indian Meal Moth	<i>Plodia interpunctella</i>	W				\$14.85	\$26.99	1230111
Lesser Peachtree Borer	<i>Synanthedon pictipes</i>	W		LPD		\$13.95	\$24.75	1230031
Nantucket Pine Tip Moth	<i>Rhyacionia frustana</i>		D			\$13.95	\$24.75	1230032
Obliquebanded Leafroller	<i>Choristoneura rosaceana</i>	W		LPD		\$14.85	\$26.99	1230113
Orange Tortrix	<i>Argyrotaenia citrana</i>	W		LPD		\$13.95	\$24.75	1230036
Oriental Fruit Moth	<i>Grapholita molesta</i>	W		LPD		\$13.95	\$24.75	1230037
Peach Twig Borer	<i>Anarsia lineatella</i>	W		LPD		\$13.95	\$24.75	1230038
Pink Bollworm	<i>Pectinophora gossypiella</i>		D			\$13.95	\$24.75	1230039
Pitch Pine Moth	<i>Rhyacionia vigidana</i>		D			\$13.95	\$24.75	1230040
Redbanded Leafroller	<i>Argyrotaenia velutinana</i>	W		LPD		\$13.95	\$24.75	1230043
San Jose Scale	<i>Quadraspidiotus perniciosus</i>	W				\$14.85	\$26.99	1230117
Sequoia Pitch Moth	<i>Synanthedon sequoiae</i>	W				\$18.99	\$34.00	1230212
Southern Armyworm	<i>Spodoptera eridania</i>	W		LPD		\$14.85	\$26.99	1230118
Southwestern Pine Tip Moth	<i>Rhyacionia neomeicana</i>	W		LPD		\$14.85	\$26.99	1230125
Spodoptera Sunia	<i>Spodoptera sunia</i>	W				\$13.95	\$24.75	1230048
Spruce Budworm	<i>Choristoneura fumiferana</i>		D			\$13.95	\$24.75	1230050
Squash Vine Borer	<i>Melittia cucurbitae</i>	W		LPD		\$14.85	\$26.99	1230119
Viburnum Borer	<i>Synanthedon viburni</i>	W		LPD		\$14.85	\$26.99	1230120
Western Bean Cutworm	<i>Loxagrotis albicosta</i>	W		LPD		\$13.95	\$24.75	1230057

For our full selection and variety of traps and lures and larger sizes, visit our website at www.arbico-organics.com
For higher volume pricing, please call 1-800-827-2847.

MOSQUITO CONTROL



Mosquitoes Transmit Serious Disease

Humans: Zika Virus, West Nile Virus, Malaria, St. Louis Encephalitis, La Crosse Encephalitis

Dogs and Cats: Dog Heartworm

Horses: Eastern Equine Encephalitis Virus, Western Equine Virus, West Nile Virus, St. Louis Encephalitis

Livestock: Encephalomyelitis, Anaplasmosis, Swamp Fever, Fowlpox

BIOLOGICAL CONTROL

Mosquito Control - *Bacillus thuringiensis var. israelensis (Bti)*

Great Mosquito Control!

TARGET: Larval stages of mosquitoes & black flies.

DESCRIPTION: "Bti" – *Bacillus thuringiensis israelensis*, are bacteria which infect and kill mosquito larvae. These bacteria kill only the larvae of mosquitoes and their close relatives like gnats and black flies. Bti does not harm other kinds of larvae, insects, fish, birds, worms or any mammals. When Bti are eaten by the mosquito larvae, they damage the gut cells and quickly paralyze them, leaving them unable to ingest fluids or food.



SUGGESTED USE FOR DUNKS: Dunks kill mosquitoes for up to 30 days when placed in standing water outdoors. Dunks will float in water and can be anchored with string to prevent them from being washed away. Alternate drying and wetting does not reduce their effectiveness. Use 1 dunk/100 sq. ft. of infested water. Dunks can also be placed in low lying areas in advance of expected flooding.

SUGGESTED USE FOR BITS/GRANULAR: Broadcast into compost piles, water gardens, flower pots, rain barrels, bird baths, tree holes, swamp coolers, unused swimming pools, old automobile tires and other places that have the potential for mosquito breeding. Use 1 tsp. per 25 sq. ft. or 1 Tbsp. per 75 sq. ft., 2.5-10 lbs./acre depending upon organic properties of water: black, murky water needs more than clear water. Lasts for approximately 2 weeks.

1211101	6 Pack Dunks	(1 lb.)	\$13.95
1211103	20 Pack Dunks	(2 lbs.)	\$22.95
1211108	8 oz. Bits	(1 lb.)	\$10.95
1211136	30 oz. Bits	(3 lbs.)	\$17.80
1211150	Aquabac 40 lb. Granular	(*Free Shipping)	\$187.00

*Free Shipping on 40 lb. bag only. FREE SHIPPING in the contiguous 48 states. Ships via Ground ONLY.

REPELLENTS

MosquitoNix® On The Go Portable Misting System



A Portable And Hands-Free Approach To Flying Insect Control.

TARGET: Flies, gnats, mosquitoes, cluster flies, clover mites, mud daubers and wasps.

DESCRIPTION: You can take this insect misting system with you wherever you go. It's small, lightweight, easy to assemble and runs on 4 AA batteries (not included); just snap it together and hang or place it where you need it. Use in 3 convenient ways: with the DUSK/DAWN® Sensor, which measures sunlight and sprays just when mosquito activity is the highest; with the included remote control to cover an area before you go out in it and, using the included can, as a conventional spray. The spray has low toxicity and is biodegradable.



SUGGESTED USE: Use in open areas near buildings (such as yards, patios, decks, porches and gazebos) and in campgrounds. One dispenser treats outdoor areas up to 300 sq. ft. Multiple dispensers can be used to treat the entire outdoor area to be protected, but do not use more than one dispenser for every 300 sq. ft. of outdoor area. See label for more complete instructions.

1211185 MosquitoNix On The Go (w/spray) (3 lbs.) **\$79.99**
Ships Via Ground Only

Mosquito Barrier®

For Yards, Parks & Grass Areas — Keeps Mosquitoes Away!

TARGET: Mosquitoes, gnats and fleas.

DESCRIPTION: Liquid garlic repellent dissipates within minutes of application. Kills adults on contact and suffocates larvae in standing water within approximately 24 hours. Saturate all plants including grass, vegetables and trees. Applications last up to 4 weeks.



SUGGESTED USE: Residential (1/2 acre): 4 oz. Mosquito Barrier & 2 gallons of water. **Medium Areas** (1.25 acres): 1 quart Mosquito Barrier & 20 gal. of water. **Large Areas** (5 acres): 1 gallon Mosquito Barrier & 98 gallons of water.

1211001	1 Quart	(3 lbs.)	\$24.50
1211002	1 Gallon	(10 lbs.)	\$79.90

This product cannot be shipped to the following states: ID,KS,WY

PETS & FAMILY

Bug Bam!® Wristbands, Camp Grids & Pet Tags



Keep Mosquitoes, Fleas & Ticks Off Your Family & Pets The Natural Way!

TARGET: Mosquitoes, fleas and ticks.

DESCRIPTION: Adjustable bands are one-size fits all and measure about 9.8" long x .47" wide. Waterproof, sweat-proof and work by masking human odors. Grids cover up to 300 sq. ft. Plastic is impregnated with essential oils of citronella, lemongrass and geranium.

SUGGESTED USE: Hang grids indoors or outdoors. Bands and grids last up to 100 hours; each pet tag lasts up to 15 hours.



- 1211700 Bug Bam! Mosquito Band-2 per pk. (.25 lb.) **\$9.00**
- 1211809 Bug Bam! Mosquito Grid (.5 lb.) **\$9.70**
- 1211811 Bug Bam! Mosquito Pet Tags (.5 lb.) **\$10.70**
- 1211703 Bug Bam! Mosquito Band-2 per pk.-10 pk. combo (1 lb.) **\$52.00**
- 1211704 Bug Bam! Family Pack & Furry Friends (1 lb.) **\$63.00**
- 1211705 Bug Bam! Family Pack (1 lb.) **\$53.00**
- 1211702 Bug Bam! Mosquito Band-2 per pk. - case of 24 (2.5 lbs.) **\$110.50**

*FREE SHIPPING in the contiguous 48 United States. Ships via US Mail only.

BiteBlocker® Herbal Repellents

Protection From Biting Pests! "Deet Free"

BITEBLOCKER INSECT REPELLENT SPRAY

TARGET: Mosquitoes, black flies, gnats, no-see-ums (biting midges)

DESCRIPTION: Protects for up to 3 hours. Contains soybean and geranium oils, plus inert ingredients.

BITEBLOCKER XTREME INSECT REPELLENT

TARGET: Mosquitoes, black flies, gnats, no-see-ums (biting midges) PLUS ticks and fleas.

DESCRIPTION: Protects up to 8 hours from mosquitoes, black flies and other biting insects and ticks. Contains soybean, geranium and castor oils, plus inert ingredients.

SUGGESTED USE: For the entire family. Re-apply as needed.

- 1211815 BiteBlocker Herbal Insect Repellent Spray - 4.5 oz. (1 lb.) **\$7.99**
- 1211819 BiteBlocker Xtreme Insect Repellent - 6.7 oz. (1 lb.) **\$8.98**



Chig-R-Blok



Take Back Your Yard — Make The Outdoors Fun Again!

TARGET: Chiggers, ticks, mosquitoes and other flying insects.

DESCRIPTION: Finally, a natural and effective solution to all those itchy, nasty, biting pests. Made from a blend of botanical oils, herbs and essential oils, Chig-R-Blok creates a barrier to repel insects and also treats existing bites and rashes. Chig-R-Blok keeps chiggers, ticks, mosquitoes and other flying insects at bay and will stop the itching associated with poison ivy, poison oak and poison sumac; allowing your skin to heal faster. Available in two formulas: Chig-R-Blok Oil and Chig-R-Blok Balm.



- Deet-free formula, can be used on humans, dogs and horses.
- Water-resistant and can last 4-8 hours (depending on perspiration).

SUGGESTED USE: As a Repellent: Avoiding the face area, apply to: forearms, from the kneecap down to tops of feet, the waist area and the back of the neck. Don't forget those tender areas that mosquitoes find irresistible.

As a Treatment: Apply Chig-R-Blok as needed to bites: allow at least 90 seconds for itching to subside. To aid in healing insect bites, apply twice daily.

For Embedded Ticks and Tick Bites: Apply Chig-R-Blok to the back of the tick, wait 90 seconds, then pull out tick with tweezers and discard. Re-apply Chig-R-Blok into wound twice daily until healing is complete. **For Poison Ivy, Poison Oak and Poison Sumac:** Apply as needed to affected area until healed.

WARNINGS: FOR EXTERNAL USE ONLY. Pregnant women should consult a doctor before use. Safe for children 4 yrs. and older. Keep out of eyes and mouth. Not for cats.

- 1212006 Chig-R-Blok 2 oz. balm (.25 lb.) **\$9.99**
- 1212005 Chig-R-Blok 2 oz. oil (.25 lb.) **\$11.50**
- 1212004 Chig-R-Blok 4 oz. oil (.25 lb.) **\$16.00**

Mycotrol® WPO

A New Formulation For An Old Favorite!

TARGET: Adult and immature stages of whitefly, thrips, aphids, psyllids, weevils, mealybugs, leafhoppers/plant hoppers, scarab beetles and plant bugs (*Heteroptera*) and more.

DESCRIPTION: Mycotrol WPO is a mycoinsecticide – wettable powder that contains live spores of the naturally occurring fungus, *Beauveria bassiana*. In fact, this formulation contains the highest concentration of any insecticide containing *Beauveria*. These spores adhere to the host insect and use enzymes to attack and ultimately dissolve the cuticle that surrounds and contains the body cavity. This fungal penetration will ultimately kill the unwanted insects but will not harm beneficials.

SUGGESTED USE: For use in greenhouses, nurseries, landscape and interiorscape settings. Mycotrol WPO can be used for a wide range of vegetables, fruits and berries, herbs and spices, ornamentals, ground covers, trees and turf. Apply Mycotrol WPO using hand-held, ground spray equipment and/or low volume application equipment.

1332785	Mycotrol WPO - 1 lb.	(2 lbs.)	\$99.99
1332795	Mycotrol WPO - 1 lb. (case of 12)	(24 lbs.)	\$1,042.00

Cannot be shipped to the following states: CT, DC, NH, NJ, NM, NY, PR



BotaniGard® ES & 22WP *Beauveria bassiana* Strain GHA

Controls A Wide Variety Of Soft-Bodied Insects In Greenhouse, Field & Nursery.

TARGET: A wide variety of soft-bodied insects such as whiteflies, thrips, aphids, psyllids, mealybugs, scarab beetles, plant bugs and weevils.

DESCRIPTION: BotaniGard ES is a natural contact insecticide that contains a liquid emulsified suspension of the mycoinsecticide – *Beauveria bassiana* Strain GHA, which controls many varieties of soft-bodied insects in greenhouse, field and nursery crops.

SUGGESTED USE: Thorough coverage is required to achieve control. Apply in 7 day intervals. However, if pest population is high, it can be applied in 3-5 day intervals totaling 3 applications.

Application Rates of BotaniGard ES

- For whitefly and aphids, use about .5-1 qt./100 gal. of water.
- For thrips, use about 1-2 qts./100 gal. of water.
- For other insects, use about .5-2 qts./100 gal. of water.
- If applying as a high or low volume spray, use up to 3 qts./100 gal. of water to cover an area of 5,000-20,000 sq. ft.

Application Rates of BotaniGard 22WP

- For whitefly and aphids, use 1/2-1 pound of BotaniGard 22WP per 100 gallons water.
- For thrips, use 1-2 pounds of BotaniGard 22WP per 100 gallons water.
- For other labeled insects, use 1/2 to 2 pounds of BotaniGard 22WP per 100 gallons water.
- Rate depends upon infestation level, consult package instructions before application.

BotaniGard ES

1332801	1 Quart	(3 lbs.)	\$88.00
1332799	1 Gallon	(10 lbs.)	\$260.00

BotaniGard 22WP

1332800	1 lb. Powder	(2 lbs.)	\$89.00
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Shipping Restrictions: Cannot ship US Mail.



Monterey Take Down Spray

A Pyrethrin/Canola Oil Mix For Your Garden That Is Affordable & Effective!

TARGET: Aphids, beetles, caterpillars, ants (except fire ants, harvester ants, carpenter ants & pharaoh ants), mealybugs, mites, leafhoppers, scale, whitefly, adelgids, plant bugs, fungus gnats, thrips, sawfly larvae, psyllids, spittlebugs & phylloxera.

DESCRIPTION: This spray works on a broad spectrum of insect pests and will attack ALL stages of insect life – eggs, larvae & adults. With canola oil and pyrethrin as active ingredients, you have a spray that will knock them down and hold them down. Can be used as a dormant or growing season spray and does not persist in the environment. Safe to use up to the day of harvest.

SUGGESTED USE: With concentrate formula, mix in either 1% or 2% solution as follows. **1% Solution:** Mix 2 tsps. of concentrate with 1 qt. water or 1 fl. oz. of concentrate with 3 qtrs. of water. **2% Solution:** Mix 4 tsps. of concentrate with 1 qt. of water or 2 fl. oz. with 3 qtrs. of water. Shake or stir frequently during use.

1257915	Take Down Garden Spray Concentrate - 1 Pint (1.65 lbs.)	\$15.25
1257917	Take Down Garden Spray RTU - 1 Quart (3 lbs.)	\$10.98

Concentrate cannot be shipped to the following states: DC, ND, SD, WY
RTU cannot be shipped to the following states: DC, FL, ND, OK, SD, WY



PyGanic Crop Protection EC 1.4

Our Most Powerful Broad-Spectrum Insecticide!

TARGET: Approved for use against more than 40 insects on more than 200 fruits and vegetables.

DESCRIPTION: This natural extract of *chrysanthemums* contains **pyrethrum**.

SUGGESTED USE: Use on all indoor and outdoor crops and livestock facilities where barn spray systems exist. Use one part Pyganic to 13 parts water; apply from 1/2 to 2 quarts per acre. Use with sufficient citric acid to lower pH to 5.5-7.

1288604	1 Quart	(3 lbs.)	\$70.00
1288605	1 Gallon	(9 lbs.)	\$245.50

Cannot be shipped to the following states: PR



Monterey 70% Neem Oil



Effective Against Indoor & Outdoor Insect Pests & Fungal Diseases!

TARGET: Use as an insecticide/miticide and/or fungicide on a wide range of ornamental plants, vegetables, trees and shrubs, as well as fruit and nut crops.

DESCRIPTION: Insecticide/Miticide Use: Controls spider mites, aphids, whitefly, scale, beetles, leafrollers and other insect pests. **Fungicide Use:** Effective against powdery mildew, black spot, downy mildew, anthracnose, rust, leaf spot, botrytis, needle rust, blights and *Alternaria*.

SUGGESTED USE: Insecticide/Miticide Use: Mix rate: 1-2 oz./gallon of water. Thoroughly spray all plant surfaces (including the undersides of leaves) until wet. **Fungicide Use:** Apply every 7-14 days; for heavy infestation, apply every 7 days. Use 1 oz./gallon of water & thoroughly spray all plant surfaces until wet. Apply on a 7-14 day schedule until control is achieved.

1555614 1 Pint (1.5 lbs.) **\$19.90**

Cannot be shipped to the following states: AR, DC, KS, LA, MS, ND, SD



Organic JMS Stylet-Oil®



Save Your Fruit & Money With This Food Grade Product For Either Summer Or Dormant Use!

TARGET: Powdery mildew, mites, whitefly, leafminer and insect transmitted diseases.

DESCRIPTION: Use this multi-purpose, year-round fungicide, insecticide and antiviral spray oil in greenhouses, on field crops and on fruit trees. Kills powdery mildew on contact and prevents occurrence for up to 14 days and controls mites, whitefly and leafminer. Made from paraffinic oil that exceeds standards set by the FDA for "Food Grade Quality." Has a high purity level of ~99.1% (UR) for formations with an industry-high emulsifier content of ~2.9% (v/v) and is colorless, tasteless and odorless. 4-hour re-entry interval; no pre-harvest interval.

SUGGESTED USE: For gardens, apply approx. 3 Tbsp./gal. water with a sprayer. For larger areas, apply about 1-2 gal./100 gal. water and use 25-150 gal. of dilute/acre depending on crop, timing and desired treatment. Apply weekly or bi-weekly depending on severity of condition. Begin at the onset of plant growth, fungus emergence, disease and insect infestation. See label online for detailed rates and instructions.

1274107	1 Gallon	(10 lbs.)	\$29.95
1274108	2.5 Gallons	(25 lbs.)	\$43.00
1274109	15 Gallon Drum	(150 lbs.)	\$225.00
1274110	30 Gallon Drum	(300 lbs.)	\$440.00
1274111	275 Gallon Tote	(2,752 lbs.)	CALL

This product cannot be shipped to the following states: AR, DC, IL, IN, IA, KS, KY, LA, MN, MS, MT, PR, RI, SD, TN, UT, WV, WI, WY (15 and 30 gal. sizes not available to OR)



BONIDE® Neem Oil RTU & Concentrate

**Three Great Products In One –
A Fungicide, Insecticide, & Miticide.**

TARGET: As an insecticide/miticide on eggs, larvae and adults of aphids, spider mites, scale, whiteflies, beetles, leafroller, etc. As a fungicide on various diseases including powdery mildew, black spot, downy mildew, anthracnose, rust, leaf spot, boytris, needle rust, scab, twig and tip blight, and *Alternaria*.

DESCRIPTION: Derived from the Neem seed, this concentrated oil is an excellent pest and disease control choice for use on many plants including roses, flowers, vegetables, herbs, spices, houseplants, trees, turf and shrubs. Can be used on contact for existing pests/diseases and as a dormant spray to control overwintering pest eggs. Can be used until day of harvest.

SUGGESTED USE:

- **Insecticide:** Mix 2-4 tablespoons (1-2 fl. oz.) per 1 gallon of water thoroughly and spray all plant surfaces, including underside of leaves, until completely wet.
- **Fungicide:** For present disease, use at 7-14 day intervals, and for prevention and continued control use at 14 day intervals.

Caution: This product is toxic to bees exposed to direct treatment.

1246602	BONIDE Neem Oil RTU -1 Quart	(2 lbs.)	\$11.89
1246603	BONIDE Neem Oil Concentrate -1 Pint	(1 lb.)	\$17.98



INSECTICIDES

Monterey Garden Insect Spray Concentrate & RTU



Insect Pests & Powdery Mildew Don't Stand A Chance With This Combination Of Spinosad & Insecticidal Soap!

TARGET: Control of foliage feeding worms (caterpillars), leafminers, thrips, fire ants and other pests as listed on label.

DESCRIPTION: This OMRI certified spray is made with Spinosad and insecticidal soap and is specially formulated for use in home environments such as gardens, lawns, ornamentals, shrubs, trees and non-commercial greenhouses. Not for use on plants being grown for sale or other commercial use, for commercial seed production, or for research purposes. The Spinosad in this spray works on insects' nervous systems, causing paralysis and death within 1-2 days. Because the insects are paralyzed, they may remain stuck on the plants and be mistaken for live insects; we recommend you check your plants 2-3 days after spraying to re-evaluate your control.

SUGGESTED USE:

For insect pests: Apply when listed pests are present. Thoroughly spray and drench all plant foliage until wet, taking care to include undersides of leaves. Repeat applications may be made as indicated in the "Use Restrictions" section of the label.

For powdery mildew: Apply when first signs of powdery mildew appear and repeat every 7-10 days. Complete coverage of plant is required for control.

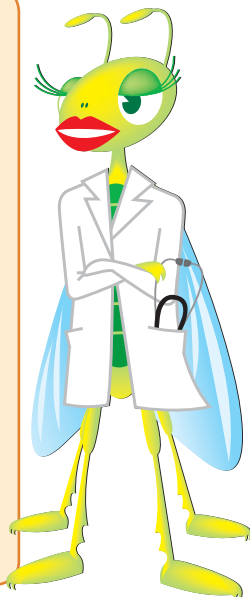
Toxicity: This product is toxic to bees for 3 hours following treatment. This product is also toxic to aquatic invertebrates such as insects, crustaceans, mollusks and worms.

1257907 Monterey Garden Insect Spray RTU - 32 oz. (2.5 lbs.) **\$12.50**
1257900 Monterey Garden Insect Spray - 1 Pint (2 lbs.) **\$16.99**

Spray RTU cannot be shipped to the following states: MS, NE, NH, SD
Spray cannot be shipped to the following states: DC



"Liquid Ladybug is one of my favorite natural insecticides. Made from essential oils, it works on contact! Spray on your plants and within minutes your mite issues will be gone! Keep a bottle handy for indoor plants and concentrate for bigger crops. It's a 'must have' for serious growers!"
 - Dr. Buglady



Surround® WP



An Effective Crop Protectant That Creates A Barrier Between The Crop & Pests.

TARGET: Apple maggot, codling moth, glassy-winged sharpshooter, Japanese beetles, leafhopper, lesser apple worms, oriental fruit moth, pear psylla, plum curculio, rose chafer, silverleaf whiteflies, stink bugs, thrips, tufted apple bud moths.

DESCRIPTION: Made from specially modified kaolin clay, Surround WP forms a barrier that protects from many pests when sprayed on fruits or vegetables. The white barrier repels pests, causes irritation, confusion, and is an obstacle for feeding and egg-laying. Kaolin clay is highly recommended for apples, wine grapes, citrus, pears, walnuts, cucumbers and tomatoes.

SUGGESTED USE: Surround WP can be applied with standard commercial sprayers, hand-held sprayers and backpack sprayers.

1440065 25 lb. Bag (30 lbs.) **\$49.95**



Liquid Ladybug RTU

Eliminate Spider Mites, Aphids & Many Other Soft-Bodied Pests Indoors Or Outdoors Without Residues!

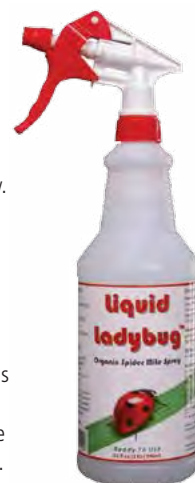
TARGET: Knockdown control for aphids, California laurel aphid, fungus gnats, greenhouse whitefly, mites, silverleaf whitefly, spider mite and sweet potato whitefly.

DESCRIPTION: This pleasant smelling, residue-free and environmentally-friendly blend of botanical oils effectively eliminates mite populations by attacking them in the egg, nymph and adult stages. It does so by adhering to the target insect or egg case, causing disruption of respiration and digestion, which shortly kills them. Liquid Ladybug will not rapidly heat or dehydrate under indoor or outdoor light. Will not stress plant tissue and can be used from planting to harvest and on clones.

SUGGESTED USE: To disrupt the reproductive cycle, apply during egg and nymph stages. Spray twice in 2 days, covering leaf surfaces and topsoil to kill all adults and nymphs. Repeat in 6 days to kill any remaining mites and eggs. Use monthly for prevention. In hot weather, spray in the morning. During windy times cover plants for 1/2 hour after spraying.

1150000 Liquid Ladybug - 16 oz. RTU (2 lbs.) **\$20.95**
1150001 Liquid Ladybug - 32 oz. RTU (3 lbs.) **\$34.00**
1150002 Liquid Ladybug - 1 gal. RTU (9 lbs.) **\$99.00**

Cannot be shipped to the following states: ID, IN, IA, KS, KY, LA, MI, NE, NM, ND, SC, SD, UT, WV, WY



ROOT KNOT NEMATODE CONTROL

AzaMax™



Broad Spectrum Botanical Insecticide Useful For The Management Of Multiple Pests.

TARGET: Aphids, psyllids, whitefly, mealybugs, lacebugs, leafhoppers, scale insects, thrips, fungus gnats, leafminers, beetles, caterpillars, mites, root knot nematodes.

DESCRIPTION: A botanical insecticide, extracted from seeds of the neem tree, *Azadirachta indica*. It provides broad spectrum insect, mite and root knot nematode control by repellence, reduced feeding and interference with the molting process which prevents development and reproduction. An emulsifiable concentrate to be diluted with water.



SUGGESTED USE: Apply as a preventative or to control existing pests.

Foliar Application: Mix 1-2 oz. per gallon of water depending on pest levels. Use lower rate for low to moderate infestations and use the higher rate per gallon for severe infestations. Spray at an interval of 7-10 days or as needed. For best results spray in the early morning or evening hours.

Soil Drench: Mix 1/2-1 oz. per gallon of water. Drench the soil in the pot with 1 pint of finished product per 1 gallon soil. Make 2-3 applications at 10-14 day intervals. Avoid excessive leaching.

Hydroponic, Aeroponic, & Recirculatory Application: Mix 1/2-1 oz. per gallon of water. Make 2-3 applications at 10-14 day intervals. If pest levels are high, make applications every 5-7 days.

2000121	4 oz.	(.5 lb.)	\$25.00
2000122	16 oz.	(1.5 lbs.)	\$62.00
2000123	32 oz.	(3 lbs.)	\$99.00
2000124	1 Gallon	(11 lbs.)	\$332.00

Molt-X™



An Excellent Knockdown Spray With Multiple Modes Of Insecticidal Action!

TARGET: Aphids, whitefly, thrips, fungus gnats, leafhoppers, leafminers, leafrollers, sawflies, webworms, mealybugs, scale, root knot nematodes and cutworms.

DESCRIPTION: An emulsifiable concentrate containing **3% Azadirachtin**. While it is derived from neem seed, it is not a neem oil. Works primarily as an Insect Growth Regulator that disrupts the molting process of the insect. Acts as an insect repellent, antifeedant and deters egg-laying.



SUGGESTED USE: Rates: For outdoor crops, vegetables and ornamentals use Molt-X at a rate of 8 to 10 ounces/acre and 15 ounces/acre for nematode control. The rate may be increased up to 22.5 oz/acre if pest pressure is extremely high or if plant canopies are very dense. For greenhouse, shadehouse, interiorscape and nursery crops use Molt-X at a rate of 8 to 10 ounces/100 gallons.

1332770	1 Pint	(2 lbs.)	\$132.55
1332771	1 Quart	(3 lbs.)	\$220.50

Cannot be shipped to the following states: AK, DC, ND, NV



Root Knot Nematode

Root knot nematodes are parasitic creatures that live off the cells of their host plant, causing plant cells to enlarge, creating galls or lumps that develop all over the roots.

Debug® Turbo



Controls Over 200 Pest Insects, Pest Nematodes And Other Plant Pathogens.

TARGET: Red ants, cutworms, grubs, chinch bugs, crickets, aphids, whiteflies, thrips, beetles, leafhoppers, fruit worms, spider mites, caterpillars, cabbage loopers, armyworms, Colorado potato beetles, diamondback moths, grasshoppers, maggots, weevils, chafers, spider mites, spittlebugs, webworms, *Rhizoctonia solani*, *Sclerotium rolfsii*, *Sclerotinia sclerotiorum*, *Fusarium oxysporum*, rust, and powdery mildew.



DESCRIPTION: OMRI Listed Debug Turbo is an insecticide, fungicide, miticide, and nematocide. Use to control insects in various stages of development, repel insects from entering treated areas and to deter insects from feeding on treated surfaces. It also acts as a growth regulator when ingested by young insects. Debug Turbo has a high concentration of active ingredients, including azadirachtin, tri-terpenoids and neem oil. It has a low REI and PHI (pre-harvest Intervals) and can be used without harm to beneficial insects.

SUGGESTED USE:

Home & Garden

- Shake container of Debug Turbo well before use.
- Mix 2 tablespoons (1 oz.) of Debug Turbo with 32 oz. of water in spray container.
- Spray mixture on leaves, stems, and underside of leaves making sure to completely saturate the plant.
- Apply in early morning or late evening with temperatures less than 95°F.
- For best results apply weekly; do not water leaves for 24 hours after application.

Lawn Care

- Shake container of Debug Turbo well before use.
- Add 1-3 oz. of Debug Turbo in a 2 gal. of water. Apply with the Chameleon Adaptable Hose End Sprayer. (See page 16).
- Mix and spray on 100 sq. ft. of lawn before irrigating.
- Apply in early morning or late evening with temperatures less than 95°F.
- Use diluted material, do not save unused mix for later use.

1450500	Debug Turbo - 1 Quart	(2.5 lbs.)	\$59.99
1450505	Debug Turbo - Case of 10 Quarts	(26 lbs.)	\$520.00
1450510	Debug Turbo - Case of 4 Gallons	(37 lbs.)	\$800.00

Debug Turbo is registered for sale in the following states: AZ, CA, CO, FL, HI, MD, ME, NC, NV, OR, PA, TX, VA, WA, WI

BACILLUS SUBTILLIS

RootShield® Granules & RootShield WP® Biological Fungicide



Utilize Beneficial Fungi To Fight Plant Root Pathogens!

TARGET: *Pythium, Rhizoctonia, Fusarium, Thielaviopsis* and *Cylindrocladium*.

DESCRIPTION: RootShield contains *Trichoderma harzianum* strain T-22, a beneficial fungus that actively attacks and feeds or parasitizes plant pathogens and ensures uninterrupted plant growth.

SUGGESTED USE: Can be used on edible crops and begins working within 24 hrs. For best results, use before planting. It can protect roots for up to 12 weeks. For general applications, use at the following rates, 1-2 Tbsp./5 gals. of water or 4-5 oz./100 gals. of water. It can be used as a soil drench for greenhouse planting mixes and container nursery crops. It can also be applied through low pressure watering nozzles, overhead boom type sprayers or sprinklers, sub-irrigation (5-6 oz./100 gals.) or other drench watering systems.

1332749	Granules 10 lb. Bag	(11 lbs.)	\$152.00
1332750	Granules 40 lb. Bag	(42 lbs.)	\$335.00
1332751	WP 1 lb. Box	(2 lbs.)	\$105.00
1332752	WP 3 lb. Box	(4 lbs.)	\$225.00

Granular cannot be shipped to: DC, ND WP cannot be shipped to: AK



RootShield® Plus Granules & RootShield® Plus WP



Use This New Biological Fungicide To Eliminate Hard To Control Diseases!

TARGET: Plant pathogens and resulting diseases such as *Phytophthora, Rhizoctonia, Pythium, Fusarium, Thielaviopsis*, and *Cylindrocladium*.

DESCRIPTION: OMRI listed and EPA registered, this product will help eliminate damaging fungal pathogens by colonizing plant root systems and by boosting biological diversity of the rhizosphere. This unique product is comprised of live microbial beneficial fungi *Trichoderma harzianum* strain T-22 and the newly developed *Trichoderma virens* strain G-41, delivering an extended array of pathogen control.

SUGGESTED USE: For control and prevention of major fungal pathogens and resultant diseases on greenhouse and nursery vegetables, herbs, ornamentals, fruits, conifer tree seedlings, various trees, legumes, oil seeds and peanuts. One application will last for approximately 12 weeks, and can be used with a 0-hr REI. This product can be used in conjunction with certain other fungicides, see label and other online resources for details.

For granular usage, mix about 1.5-3 lbs. to 1 cu. yd. of mix or about four 40 lb. bags to 100 cu. yds. of soil mix. For WP, use about 6 oz. of powder to 100 gal. of water. For plug trays, flats and small pot with 1-3 in. of soil, use about 100 gal. mix /800 sq. ft. For beds and pots 4-5 in. deep, use about 100 gal. mix /400 sq. ft. For azalea pots 6 in. deep, use about 100 gal. mix /1600 pots.

1332754	Granules 10 lb. Bag	(15 lbs.)	\$188.00
1332755	Granules 40 lb. Bag	(45 lbs.)	\$421.00
1332756	WP 1 lb. Box	(2 lbs.)	\$118.00
1332757	WP 3 lb. Box	(4 lbs.)	\$242.00
1332758	WP 30 lb. Box	(33 lbs.)	\$2,205.00

Granular cannot be shipped to: AK, MT, NV, ND WP cannot be shipped to: AK, ND, NY



RootShield® Home & Garden



Help Your Vegetables, Flowers and Ornamentals Fight Root Diseases & Thrive!

TARGET: For use against the following root diseases: *Pythium, Fusarium, Rhizoctonia, Thielaviopsis* and *Cylindrocladium*.

DESCRIPTION: RootShield Home & Garden is an OMRI certified product that will protect your plants from root disease pathogens and give them that extra boost to make them really flourish. The active ingredient in this natural pesticide is *Trichoderma harzianum*, strain T-22, a beneficial fungus. This organism has been thoroughly developed and tested in over 18 years of university studies and is now ready to work for you. It will protect your plants' roots from soil-borne diseases, which allows them to put their energy into growing and blossoming.

SUGGESTED USE: Mix RootShield Home & Garden with water (1-3 tbsp. per gallon) and apply immediately after mixing. Stir regularly during application. Use all your mixture, do not store product mixed with water. RootShield Home & Garden is designed for application to seeds, plant roots and soil for control of plant root diseases and not for spray application to foliage or fruit. **DO NOT APPLY** to sugarcane, peachay, rice, mushrooms, kiwi, tobacco, barley, oats, lemon, apple and chickpea. Not for use on aquatic crops.

1332740	RootShield Home & Garden - 4 oz.	(1 lb.)	\$17.00
1332741	RootShield Home & Garden - 1 Case (12 bottles)	(13 lbs.)	\$171.00

This product cannot be shipped to the following states: AK, HI, IA, MT, ND, NE, SD, WY



BACILLUS SUBTILLIS

Serenade®



OMRI Listed & NOP Certified. Made From *Bacillus Subtilis*, This Biofungicide Works Great For Treating A Broad Spectrum Of Plant Diseases.



TARGET: Controls and suppresses plant diseases including black spot, powdery mildew, rust, gray mold, late blight, scab and many more.

DESCRIPTION: This biofungicide is made from a patented living microbial strain QST 713 *Bacillus subtilis* and can be used on roses, vegetables, fruits, nuts, flowers, houseplants, ornamentals, foliage, trees and landscape shrubs.

SUGGESTED USE: Apply in ≈7 day increments up to and on the day of harvest. Apply at any time of day, in direct sun and at high temperatures. Treat prior to presence of plant disease and increase frequency in excess environmental moisture. Apply using pressurized hand-held sprayer or hose-end sprayer. For concentrate: depending upon the infection, mix between 2-4 fl. oz. per gal. of water.

2000080	32. oz. Concentrate	(3 lbs.)	\$22.85
2000081	32 oz. RTU Spray Bottle	(3 lbs.)	\$15.75
2000082	32 oz. RTS Hose End	(3 lbs.)	\$26.00

Cease™ - Biological Fungicide



For Control Of Soil Pathogens As Well As Fungal & Bacterial Plant Diseases!

TARGET: *Botrytis*, powdery mildew, anthracnose, leaf spot diseases including *Alternaria* and *Entomosporium*; bacterial diseases such as *Pseudomonas*, *Erwinia*, and *Xanthomonas* spp., as well as the soil diseases *Rhizoctonia*, *Pythium*, *Fusarium* and *Phytophthora*.



DESCRIPTION: Cease is a contact biological fungicide that contains *Bacillus subtilis*, that stops pathogens from developing on plant leaves.

SUGGESTED USE: Approved for NOP production. Use 2-8 qts./100 gallons of water approximately once per week. (see label online for specific crops and diseases.) This product is suitable for wet applications. Use with a spreader sticker such as Therm X™-70 in wet environments.

1332724	1 Gallon	(10 lbs.)	\$75.50
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This product cannot be shipped to the following states: AK, NV

POTASSIUM BICARBONATE

MilStop® Broad Spectrum Foliar Fungicide



Excellent For Controlling Powdery Mildew & Other Fungal Diseases!

TARGET: Powdery mildew, *Alternaria* blight, anthracnose, black spot, *Botrytis* blight, *Cercospora* leaf spot, downy mildew, *Phomopsis* blight, and *Septoria* leaf spot.



DESCRIPTION: MilStop is an OMRI listed, WSDA certified foliar fungicide. Potassium bicarbonate-based it kills powdery mildew on contact by pulling water from spores and their growing strands. It also inhibits enzymes involved in fungal cell wall formation by altering the pH on the leaf surface. Foliar applications provide 1-2 weeks of residual protection.

SUGGESTED USE: Generally 2.5 lbs./100 gal. of water. (See label online for specific crops, diseases and application systems.)

1332753	MilStop Foliar Fungicide - 5 lb. Bag	(6 lbs.)	\$70.00
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Cannot be shipped to the following states: AK

Bi-Carb Old Fashioned Fungicide



Control Powdery Mildew on Fruits, Herbs, Lawns, Ornamentals, Roses and Most Vegetable Crops.

TARGET: *Botrytis* (gray mold), *Erwinia* (soft rot), *Fusarium* (wilt) and other fungal diseases



DESCRIPTION: Bi-Carb Old Fashioned Fungicide is a fungicide containing micro-encapsulated potassium bicarbonate. It is a contact fungicide, and works by disrupting the potassium ion balance in the fungus cell, causing it to collapse and die. OMRI listed Bi-Carb Old Fashioned Fungicide controls powdery mildew on fruits, herbs and spices, in lawns, ornamentals, roses and most vegetable crops.

SUGGESTED USE: Apply with a hand-held or other type of sprayer making sure to cover foliage thoroughly and contact all diseased plant parts. Use a non-acidifying spreader sticker such as JMS Stylet oil. DO NOT USE A BUFFER.

Application Rate: 4 teaspoons per 2 gallons of water to cover approximately 1,000 sq. ft. Add Bi-Carb Old fashioned Fungicide to water very slowly. Add spreader-sticker last. Use within 24 hours.

1226604	Bi-Carb Old Fashioned Fungicide	(.5 lb.)	\$9.99
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Cannot be shipped to the following states: AK, AR, DC, DE, FL, HI, ID, IN, KY, LA, MA, MD, ME, MS, NE, NM, NC, ND, OK, SD, TN, WV, WY

DISEASE CONTROL

BONIDE® Sulfur Plant Fungicide

Use To Control Insects & Diseases!

TARGET PESTS: Thrips, scale, two spotted mite and chiggers.

TARGET DISEASES: Rust, powdery mildew, leaf spot, scab and more.

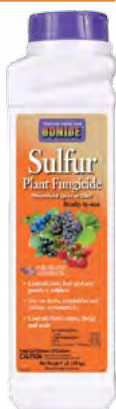
DESCRIPTION: This sulfur fungicide can be used on many fruit and vegetable crops. It is treated with a wetting agent so particles stick to leaf surfaces for greater efficiency and results.

SUGGESTED USE: Use 1-3 Tbsp./gal. water or 3-10 lbs./100 gal. every 7-10 days depending on crop and level of infestation. **For control of chiggers:** cover entire lawn, flower garden, shrubs, etc. as needed weekly using 1 lb./≈500 sq. ft.

1454701 BONIDE Sulfur Dust Fungicide - 1 lb. (2 lbs.) **\$8.75**

1454702 BONIDE Sulfur Dust Fungicide - 4 lbs. (5 lbs.) **\$16.00**

Cannot be shipped to the following states: AK



BONIDE® Liquid Copper Fungicide Concentrate

Use For The Control & Prevention Of Many Fungal Diseases.

TARGET: Powdery mildew, downey mildew, blights, leaf & fruit spots, anthracnose, rust, peach leaf curl, fruit rot other fungal diseases.

DESCRIPTION: Made with copper octanoate, (which is a copper salt mixed with a naturally occurring fatty acid to form a soap), this fungicide will not burn your plants and can be used up to the day of harvest. When stored in the original container away from open fire or flame and above 39°F (4°C), this has a shelf life of 7-10 years. Approved for organic gardening.

SUGGESTED USE: Mix 0.5-2.0 fl. oz. of product in a gallon of water. Unless otherwise stated in specific application notes on label, apply 1.1 -2.3 gallons of diluted spray per 1,000 sq. ft. For best control, start spraying before the disease is visible or when the disease is first visible on the plant. Spray all plant parts thoroughly & repeat every 7-10 days.

1455101 BONIDE Liquid Copper Fungicide - 16 oz. CN (1.5 lbs.) **\$16.45**

Cannot be shipped to the following states: AK, DC, PR



BioSafe Disease Control - Concentrate & RTU



Eliminate Bacteria & Fungi On Contact!

TARGET: Preventive and curative treatment against plant pathogens and diseases such as *Alternaria*, Anthracnose, Aphanomyces, Bacterial Spot, Bacterial Speck, Black Spot, *Botrytis* (grey mold), Brown Spot, Downy Mildew, *Erwinia*, *Fusarium* (root rot), Leaf Spot, *Phytophthora*, *Plasmopara*, Powdery Mildew, *Pseudomonas*, *Pythium*, *Rhizoctonia*, Rust, Scab, Smut, and *Thielaviopsis*.

DESCRIPTION: Using the rapid oxidative property of peroxygen, this is a great alternative to copper-based products for eliminating bacteria and fungi on contact. It is safe to use repeatedly on a variety of crops without cultivating resistance or leaving behind any visible residues or odor. It can also be used in hydroponic and aquaponic growing systems and is excellent for cleaning or disinfecting surfaces, tools, water filters and equipment.

SUGGESTED USE: Can be applied to field or greenhouse melons, tomatoes, peppers, snap and dry beans. The 32 oz. RTU formula will cover around 12,000 sq. ft. For concentrate, mix at indicated rates, and fully saturate foliage. For foliar applications, use at an initial rate of 1:150 parts water (.85 fl. oz. to 1 gal. water). For weekly preventative use, mix at a rate of about 1:200 parts water (0.64 fl. oz. to 1 gal. water). For turf treatments, use about 1.3 fl. oz. per gal. of water, 3-10 gals. of solution will cover about 1,000 sq. ft. of lawn.

1222504 32 oz. RTU (2 lbs.) **\$14.75**

1222505 32 oz. RTS (2 lbs.) **\$23.75**



Actinovate® Lawn & Garden Fungicide



Prevents & Treats Lawn, Root & Foliar Diseases!

TARGET: Brown patch (*Rhizoctonia*), dollarspot (*Sclerotinia*), take-all patch (*Gaeumannomyces graminis*), *Pythium* Blights, *Pythium*, *Phytophthora*, *Rhizoctonia*, *Verticillium*, *Fusarium*, late blight, powdery mildew, downy mildew, grey mold (*Botrytis*), fire blight (*Erwinia*), leaf spots, rusts and black spot (*Diplocarpon rosae*).

DESCRIPTION: Prevents and treats lawn, root, and foliar diseases. Contains *Streptomyces lydicus* beneficial microorganisms.

SUGGESTED USE: For vegetables, herb gardens, annuals, perennials, trees, shrubs and hydroponic growing. For soil diseases: water and drench soil with solution of 1-2 tsp./2 gals. water/cup of soil or 6" potted plant. For foliar disease, use solution of 1-2 tsp./2 gals. water per week. For indoor or hydroponic growing, use 1/2 to 1 tsp./gal. water every 2-6 weeks. For direct watering use 10 tsp./5 gal. water to cover 1,000 sq. ft. For pump sprayers, use 2 tsp./1 gal. water to cover 200 sq. ft. For hose end sprayers, use 2 tsp./4 oz. water to cover 200 sq. ft. and for severe issues, use 9 tsp./20 oz. water to cover 1,000 sq. ft. For best results apply with a wetting agent (available online) and reapply every 4-8 weeks.

1420000 Actinovate Lawn & Garden 20 grams **\$16.00**

1420001 Actinovate Lawn & Garden 2 oz. **\$27.00**

Cannot be shipped to the following states: AK, HI, PR



OxiDate® 2.0



Clean Your Greenhouse & Tools With This Environmentally Friendly Alternative To Copper Fungicides!

TARGET: Preventative and curative treatment against plant pathogens and diseases such as *Alternaria*, Anthracnose, *Aphanomyces*, bacterial spot, bacterial speck, black spot, *Botrytis* (grey mold), brown spot, downy mildew, *Erwinia*, *Fusarium* (root rot), leaf spot, *Phytophthora*, *Plasmopara*, powdery mildew, *Pseudomonas*, *Pythium*, *Rhizoctonia*, rust, scab, smut and *Thielaviopsis*.



DESCRIPTION: OxiDate uses the rapid oxidative property of peroxygen to eliminate bacteria and fungi on contact! Use repeatedly on a variety of crops without cultivating resistance or leaving behind any visible residues or odor. OxiDate may also be used for cleaning surfaces, tools, water filters and equipment. Excellent for use in cleaning greenhouses.

SUGGESTED USE: Ensure that a minimum ratio of 1:100 is used.

1222501 2.5 Gallons (29 lbs.) **\$198.00**

1222502 5 Gallons (52 lbs.) **\$329.75**

Call for larger sizes.

Cannot be shipped to the following states: PR, VI, GU, AS, PW, AK, HI

*Free Shipping in the contiguous 48 states. Ships via Ground ONLY.

SaniDate® 5.0



An OMRI Listed Sanitizer/Disinfectant.

TARGET: Bacteria including *Salmonella*, *Streptococcus*, *E. coli*, *Pseudomonas*, *Staphylococcus aureus*, *Listeria* and molds including mildew.

DESCRIPTION: Contains hydrogen peroxide and peroxyacetic acid as an alternative to chlorine to sanitize and disinfect post harvest equipment, fruit and vegetables and various hard surfaces. Usage industries include farms, dairies, beverage plants, food processing plants, greenhouses, etc. No dumping or run-off restrictions.



SUGGESTED USE: For general disinfection, sanitation of surfaces, food safety programs, irrigation systems and greenhouse use mix about 0.5 fl. oz./1 gal. of water. Solution can be applied various ways depending on desired usage. Applications can be made with mops, sponges, spraying devices, etc.

1222515 2.5 Gallons (27 lbs.) **\$140.00**

1222517 5 Gallons (52 lbs.) **\$225.00**

Call for larger sizes. All sales of SaniDate are final.

WARNING

Corrosive: Causes irreversible eye damage and skin burns. May be fatal if inhaled or absorbed through skin. Harmful if swallowed. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Wear goggles, face shield, and rubber gloves when handling. Do not enter an enclosed area without proper respiratory protection. Wash thoroughly with soap and water after handling and before eating, drinking, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse. Strong oxidizing agent. Do not use in concentrated form. Mix only with water in accordance with label instructions. Never bring concentrate in contact with other pesticides, cleaners or oxidative agents.

SaniDate® Hard Surface Sanitizer



A Great Alternative to Chlorine Bleach, Phenol & Ammonia Cleaners

TARGET: Kills bacteria on all hard surfaces throughout your home and office.

DESCRIPTION: SaniDate Hard Surface Sanitizer contains an activated form of hydrogen peroxide that is an alternative to chlorine for use sanitizing non-porous, hard surfaces. It can be used to disinfect floors, kitchen surfaces and food preparation areas. In addition, this product is great to have on hand for gardeners. SaniDate Hard Surface Sanitizer can be used to clean gardening tools, seed starting trays, buckets, potting containers, gardening gloves. Excellent for cleaning the interior surfaces of cold frames and greenhouses.



SUGGESTED USE: Clean grease, food particles and other substances from surface with detergent before use. Spray 6-8 inches from surface and let sit for 1-5 minutes, depending on use. Allow for product to air dry and do not rinse with water. Store in cool area.

1222510 SaniDate Hard Surface Sanitizer - 32 oz. RTU (1 lb.) **\$9.00**

1222511 SaniDate Hard Surface Sanitizer - 1 gal. RTU (10 lbs.) **\$27.95**

SaniDate® Sanitizing Wipes



An Easy-To-Use And Natural Cleaning Alternative To Chlorine, Quat & Phenol Cleaners.

TARGET: Easily and safely cleans and deodorizes hard surfaces wherever you go.

DESCRIPTION: SaniDate Sanitizing Wipes contain an activated form of hydrogen peroxide that can be used as an alternative to chlorine to sanitize various non-porous hard surfaces. Use SaniDate Sanitizing Wipes to clean floors, kitchen surfaces and food preparation areas. In addition, this product is great to have on hand for gardeners as it can be used to clean gardening tools, seed starting trays, buckets, potting containers, gardening gloves and can be used to clean interior surfaces of cold frames and greenhouses.



SUGGESTED USE: Clean grease, food particles and other substances from surfaces with detergent before use. Remove lid, pull wipe from center of roll and thread corner through opening in the lid and replace lid. Wipe surface and let sit for 1-5 minutes, depending on use. Allow for product to air dry and do not rinse with water. Make certain the lid is snapped shut after use. Dispose of wipes in trash and do not use on skin or flush for disposal.

1222512 SaniDate Sanitizing Wipes - 50 Count (1.35 lbs.) **\$9.00**

1222513 SaniDate Sanitizing Wipes - 125 Count (4 lbs.) **\$13.50**

SOIL TESTING



Soil Testing & Test Kits

The secret to healthy plants begins with healthy soil. Before you begin planting, it's important to know what soil type you have. You can then amend or fertilize accordingly.

- **Why should I test my soil?**

Nitrogen, Phosphorus and Potassium (N, P, K) are the essential nutritional building blocks for all plants. In order to optimize your plants' health there needs to be a balance of these minerals in your soil.

- **When should I test?**

Soil testing can be taken anytime throughout the year, but especially if you are experiencing growing problems. Soil testing results can be used as a guide to appropriate amending and fertilizing.

Luster Leaf® Rapitest® Soil Test Kit

A Quick Way To Test N-P-K!

TARGET: Monitor pH, nitrogen, phosphorus and potassium levels in soil.

DESCRIPTION: Kit comes with 40 test capsules in total, 10 for each kind of test. Also includes a water dropper, result chart & guide to fertilization, and pH preference for over 450 types of plants!

SUGGESTED USE: Sample soil, mix with water, add solution, shake and note results. Detailed instructions and usage charts included in kit.



1275203	Soil Test Kit	\$16.00
1275204	pH Soil Tester	\$6.82
1275205	10 pH Soil Test Capsules - Green	\$3.50
1275206	10 Nitrogen Soil Test Capsules - Purple	\$3.50
1275207	10 Phosphorus Soil Test Capsules - Blue	\$3.50
1275208	10 Potash Soil Test Capsules - Orange	\$3.50
1275210	Combo Pack of Soil Test Capsules (10)	\$9.99

Rapitest® Digital 3-Way Analyzer

Learn About the Fertility, pH & Temperature Of Your Soil Or Growing Media With This Easy-to-Use Digital Analyzer!

TARGET: pH and temperature of soil to optimize seed germination and healthy growing.

DESCRIPTION: Optimize your growing with this great garden tool that identifies soil pH, the combined levels of three primary macro-nutrients and soil temperature with the push of a button. It's easy to switch between testing modes. Each test takes approximately 60 seconds. You can obtain complete soil fertility, temperature and pH information in a short period of time.

SUGGESTED USE: Use the data to develop your soil improvement plan for each planting season. Detailed instructions for contains information that will help you manage pH and soil fertility issues.



1275224	Digital 3-Way Analyzer	(2 lbs.)	\$26.89
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LaMotte Garden Guide Soil Test Kit

Economical and Educational Kit Combines pH & N-P-K Tests.

TARGET: Unbalanced soil with unknown pH and NPK levels.

DESCRIPTION: Quickly determine the pH, nitrogen, phosphorus and potassium levels in your soil! Comes with diagrammed instructions, laminated color charts and plastic carrying case. There is enough material for 30 pH tests, and 15 tests for each variable of N-P-K, (nitrogen, phosphorus and potassium). A Study of Soil Science and The LaMotte Soil Handbook help you interpret your test results.

SUGGESTED USE: Fill test tube with the recommended amount of the correct solution, add needed amount of soil, mix, let settle for required time to test your soil.



1275300	LaMotte Test Kit	(4 lbs.)	\$59.99
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Soil Analysis

Growing Healthy Plants Begins With Understanding The Nature Of Your Soil.

TARGET: Large or small gardens, fields or greenhouses that need accurate in-depth soil information.

DESCRIPTION: Do you have difficult dirt or rich, fertile soil? Healthy soil that is rich in macro and micro-nutrients is crucial for successful growing. ARBICO's soil analysis will tell you what you need to know in order to develop better quality soil and grow healthy plants, lawns and trees.



You will receive a start-to-finish, month-to-month program specifically tailored for your soil situation. Also included with your analysis is unlimited access to an ARBICO consultant who will assist you by recommending the steps to take to improve your soil conditions. Consider us your soil coach!

1275001	Soil Analysis		\$60.00
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ARBICO Organics™ Root Maximizer™ Mycorrhizal Fungi

Provide Your Plants' Roots With Beneficial Fungi They Need To Grow!

TARGET: Soils deprived of beneficial organisms or artificial soils that are over-composted, depleted, damaged by chemicals, or lack nutrients due to mining, erosion or construction.

DESCRIPTION: Over 90% of all plants on Earth form a beneficial relationship with organisms known as mycorrhizal fungi. These beneficial fungi colonize plant roots and expand into the surrounding soil. They greatly increase the root's ability to absorb water and nutrients, while improving plant yields and health. Root Maximizer is a blend of 4 species of endomycorrhizal fungi (also known as arbuscular mycorrhizal fungi or AM Fungi). Viable spore count is ≈100,000 spores/lbs.

SUGGESTED USE: Inoculate roots with mycorrhizal spores (1 oz. is ≈3 Tbsp.) For vegetables, grasses, flowers, shrubs, fruit trees and ornamentals.



1332698	Root Maximizer - 1 oz.	(.25 lb.)	\$9.00
1332697	Root Maximizer - 2 oz.	(.5 lbs.)	\$12.50
1332699	Root Maximizer - 8 oz.	(.75 lb.)	\$31.50
1332704	Root Maximizer - 1 lb.	(1.25 lbs.)	\$45.00
1332705	Root Maximizer - 10 lbs.	(11.5 lbs.)	\$329.00

ROOT™



Stronger, Healthier, Happier Plants Start At The Root!

TARGET: Use indoors or outdoors on plants, seedlings and in propagation, to boost root health and aid plant nutrition and soil vitality.

DESCRIPTION: With eight different beneficial microbes, fully soluble ROOT is the ideal biological inoculant and soil amendment wherever you are growing. ROOT introduces naturally occurring beneficial microbes that boost bacterial colonization at the roots. This aids plant nutrition and soil vitality in a number of ways. With increased microbial activity at the roots, the plant is more efficient at absorbing the nitrogen found in air in the soil and breaking it down into ammonia and nitrate. Likewise, normally insoluble phosphorus is made more soluble. The plant is better able to access these crucial nutrients once they are broken down. The Myconate (Formononetin) in the formulation is a naturally occurring, signaling molecule, that spurs bacterial colonization and the growth of mycorrhizal fungi. This improved mycorrhizal network serves the plant by providing an increased surface area of the root that allows the plant to absorb more nutrients and water. ROOT also provides the fungal spore known as *Trichoderma*, that grows on the surface of roots; providing disease control and enhanced root growth.



ROOT comes in a convenient, resealable packet. This allows you to use just what you need as you need it, which is a good thing, as a little bit of ROOT will go a long way. The 1.5 oz. packet will make 12 gallons and the 4 oz. packet makes 32 gallons.

SUGGESTED USE:

Not recommended for use in Recirculating or Deep Water Culture Systems. Use ROOT as a separate feeding from regular nutrient feedings. Use within 6 hours of mixing ROOT into water.

Transplanting:

Mix 1 tsp. of ROOT per gallon of water. Transplant and apply ROOT solution as a root drench.

Vegetative and Flowering Plants:

Mix 1 tsp. of ROOT per gallon of water. Apply ROOT solution as a root drench to the growing medium every 2 weeks.

3000505	ROOT - 1.5 oz.	(.25 lb.)	\$12.99
3000506	ROOT - 4 oz.	(.75 lb.)	\$24.99
3000501	ROOT - 1.5 oz. - case 12	(1.5 lbs.)	\$132.00
3000502	ROOT - 4 oz. - case 6	(2 lbs.)	\$126.00
3000503	ROOT - 1 lb. - case 4	(4.5 lbs.)	\$242.00
3000504	ROOT - 5 lb. - case 2	(11 lbs.)	\$520.00

Mycormax® Biological Inoculum



Want Healthy, Productive Plants? Make Sure You Inoculate With This Balanced Blend Of Beneficial Mycorrhizae. Perfect For Starters, Transplants, Shrubs & Trees!

TARGET: Plants in soils depleted of beneficial fungi, suffering from various fungal disease and poor health.



DESCRIPTION: Mycormax is a unique mix of seven beneficial species of root colonizing mycorrhizal fungi – *Glomus intraradices*, *Glomus mosseae*, *Pisolithus tinctorius*, *Sclerotoderma cepa*, *Sclerotoderma geastrum*, *Sclerotoderma citrinum* and *Laccaria bicolor*. These mycorrhizae form a symbiotic relationship with plant roots, helping them absorb nutrients and moisture more effectively while building resistance to soil-borne plant diseases.

SUGGESTED USE: Apply ≈1 bag/small plant or 1 gal. plant, apply ≈3 bags/5 gal. plant and ≈8 bags/15 gal. plant.

1811020	Mycormax 24 Tea Bags/Pack	(1.25 lbs.)	\$12.85
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SOIL ENHANCEMENTS

Healthy Soil Recipe

Tested & Recommended By The National Home Gardening Club Members.

ARBICO Organics have bundled these three great products to help your garden become stronger and more productive. In addition, healthy, balanced soil is the foundation for plants to resist disease and pest infestation. Use in conjunction with proper soil amending, watering and drainage and pest monitoring and controls to build your best garden.

Each product supports specific soil needs: EM-1® provides beneficial microbes; Nitron A-35 has enzymes that increase plant absorption of available nutrients; and Neptune's Harvest Fish & Seaweed Fertilizer provides natural nutrients with an N-P-K of 2-3-1.

EM•1® Microbial Inoculant

EM•1 Microbial Inoculant consists of healthy bacillus from naturally fermented live microorganisms. Works with beneficial microbes in the area it is applied to, creating a synergy among microorganisms and larger forms of life including insects, worms, pets, livestock and people.

Nitron Formula A-35 Micro-Nutrients

Nitron Formula A-35 is an enzymatic soil conditioner that makes more nutrients available to your plants and crops, aids in germination and increases microbial activity.

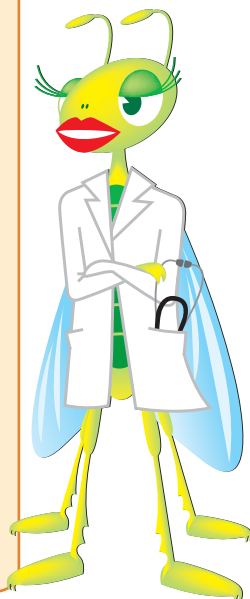
Neptune's Harvest Fish & Seaweed Fertilizer 2-3-1

OMRI listed, Neptune's Harvest Fish & Seaweed Fertilizer increases yield and improves shelf life of fruits and vegetables. Flowers and foliage will be stronger and more colorful. Great for hydroponics.

See pricing details for the regular and large kit, at right. →



"My first diagnosis of specific pest issues is that there likely is an underlying soil fertility issue and I prescribe an immediate boost to your soil fertility program. I recommend using ARBICO's Healthy Soil Recipe. You'll be amazed at the results! Healthy plants = reduced pests and higher yields!"
- Dr. Buglady



HEALTHY SOIL RECIPE

Breathe Life Into Your Garden!



These products work best when used together. See for

yourself how much life they breathe into soil and plants, making them healthier, more plentiful and less prone to disease and pest infestations.

Regular Kit Includes:

- 12 oz. EM•1 Microbial Inoculant (beneficial microbes)
- 32 oz. Nitron Formula A-35 Micro-Nutrients (enzymes to increase absorption)
- 32 oz. OMRI listed Neptune's Harvest Fish & Seaweed Fertilizer 2-3-1 (natural nutrients)
- Kit treats up to ≈3,000 sq. ft.

\$44.98

1200803 Regular Size Kit

(Total price old separately: \$49.45)

Large Kit Includes:

- 1 Quart EM•1 Microbial Inoculant (beneficial microbes)
- 1 Gallon Nitron Formula A-35 Micro-Nutrients (enzymes to increase absorption)
- 1 Gallon OMRI listed Neptune's Harvest Fish & Seaweed Fertilizer 2-3-1 (natural nutrients)
- Kit treats up to ≈12,000 sq. ft. or ≈1/4 acre

\$99.98

1200805 Large Size Kit

(Total price old separately: \$118.96)

Cannot be shipped to the following states: AZ

ARBICO Organics™ Compost Plus

Our Premium Formula – Made Exclusively At ARBICO Organics!

TARGET: Soils lacking beneficial bacteria resulting in plants with low brix levels.

DESCRIPTION: This compost is super-charged with billions of beneficial bacteria that will increase your plants' health making them grow faster, produce more and resist diseases and insect pests. It contains a specially formulated blend of fermented nitrogen and carbon materials that revitalizes soil, speeds up decomposition of organic matter and raises brix (sugar level—vitality) levels. **Our compost has chitinase which has nematocidal properties.**

SUGGESTED USE: Use 3-10 Tbsp./potted plant, mix. Use 1 lb./12 sq. ft. Use a 2 cubic ft. bag to treat 50 sq. ft. and use 2-4 tons/acre for farms.

1305601	1 lb. Bag	(2 lbs.)	\$8.90
1305602	5 lb. Bag	(6 lbs.)	\$11.50
1305610	1 cubic ft. Bag	(21 lbs.)	\$17.00
1305603	(2) 1 cubic ft. Bags	(41 lbs.)	\$28.00
1305607*	1/2 Ton Pickup Truck Load		\$126.00

*Call to arrange pickup. Pickup in Catalina, AZ.



ARBICO Organics™ Earthworms - Eisenia fetida

Use In Your Garden & With The Worm Factory® - Fun For The Whole Family!

TARGET: Vermicomposting bins and soils.

DESCRIPTION: Earthworms (red wigglers) consume organic matter and convert it into enriching "castings" full of micro-organisms, nutrients and humic acids that improve, aerate, and condition soil. Castings work like highly nitrous fertilizers that contain about 5X the available nitrogen, 7X the available phosphorus, 3X the exchangeable magnesium, 11X the available potash, and 1.5X the calcium found in 6 inches of soil. For indoor and outdoor use; red wigglers are perfect for worm bins!

SUGGESTED USE: 1,000 per Worm Factory (see website) tray or 10 qt. worm bin. ≈2-3 worms/≈1 sq. ft., 1,000 worms/400 sq. ft.

1308003	≈1,000 Worms	(2 lbs.)	\$34.99
1308020	≈2,000 Worms	(4.5 lbs.)	\$49.50
1308050	≈5,000 Worms	(10 lbs.)	\$99.00



ARBICO Organics™ Compost Tea Bag

The Healthy Elixir For Your Plants!

TARGET: Plants that are stressed and need an extra boost!

DESCRIPTION: A highly concentrated extract of beneficial microorganisms.

SUGGESTED USE: Mix with up to 5 gallons of warm water. Steep for 8-48 hours. Agitate frequently. Use immediately (to preserve life of microorganisms) as a foliar spray or soil drench.

1305402	Compost Tea Bag	(2 lbs.)	\$9.00
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ARBICO Organics™ Earthworm Castings

Will Help Suppress Disease, Improve Soil Structure & Will Not Burn Your Plants!

TARGET: Soils lacking nutrients and microorganisms.

DESCRIPTION: Castings add microbial life and nutrients to soil. One of the best ways to add nutrients to your soil!



Suggested Use - Earthworm Castings:

Seedlings:	Use up to 20% Earthworm Castings by volume in potting mix.
Vegetables & Annuals:	Side dress with 1/2 cup of Earthworm Castings per plant every 2-4 weeks during growing season.
Transplants:	Place 1in. of Earthworm Castings in planting hole before placing plant.
Potted Plants:	Mix 1 in. of Earthworm Castings with top of soil and water in. Take care not to harm shallow roots.
Trees & Shrubs:	Mix 1 in. of Earthworm Castings with the top of soil around base of plants every month during growing season.
Compost Tea:	Add 1 cup of Earthworm Castings per gallon of non-chlorinated water. Add 1 tsp. of unsulphured molasses and aerate for 24-48 hours by stirring frequently or by using an aquarium pump. Use weekly as a foliar spray or soil drench.

1308200	1 lb. Bag	(1.25 lbs.)	\$4.95
1308201	5 lb. Bag	(6 lbs.)	\$15.20
1308202	10 lb. Bag	(11 lbs.)	\$25.00
1308203	25 lb. Bag	(27 lbs.)	\$47.95

Visit www.arbico-organics.com for our full line of amendments including Alfalfa Meal, Coco Coir, Greensand, Kelp Meal, Lime, Rock Dust, Soft Rock Phosphate (pg. 43) & Sulphure (pg. 43).

BIOSTIMULANTS

Veganic Special Sauce



Use This Microbial Tea Formulation For Plants That Benefit From Veganic Nutrition.

TARGET: Plants that can benefit from the addition of foliar applications of beneficial bacteria and mycorrhizal fungi.

DESCRIPTION: Veganic Special Sauce is a concentrated microbial tea formula that is free of toxic materials, pathogens, and heavy metals. Derived from only plant and mineral sources, Veganic Special Sauce contains no compost or animal by-products. This highly soluble tea formula is effective throughout the growth cycle and can be diluted for soil drenching or used as a foliar feed. Ingredients include; seaweed extract, humic shale and micronized rock minerals.

SUGGESTED USE: Mix 1-3 Tbsp. of Veganic Special Sauce per gallon of water. Allow mixture to aerate for at least one hour, but no longer than 24 hours. Apply beneficial bacteria inoculant to plants' foliage. Use Veganic Special Sauce from early vegetative stage up to the last week of flowering.



1305420 Veganic Special Sauce - 2 lbs. (3 lbs.) **\$49.95**

Nitron's Humic Acid

Cost-Effective Way To Add Humus To Your Soil!

TARGET: Soils lacking humus.

DESCRIPTION: One of the best natural conditioners for soil. This Liquid Humic Acid is made from compost and Leonardite, which is produced by the natural oxidation of exposed lignite, a low-grade coal.

Applying Liquid Humic acid has the following advantages:

- Penetrates the soil quickly, going directly to the roots for rapid absorption
- Easier to apply than compost
- Can be used with indoor plants
- Can be used with other fertilizers or soil conditioners
- Helps stabilize soil pH
- Increases soil bacteria
- Increases water retention

SUGGESTED USE:

- For indoor plants, 2 tsp./qt. of water.
- For outdoor yards or gardens, apply with a hose-end sprayer; one quart covers 2,500 square feet. Apply twice a year.
- For large acreage, 1 gallon/20 gallons water/acre.

1328401 Nitron's Humic Acid - 1 Quart (3 lbs.) **\$19.80**
1328402 Nitron's Humic Acid - 1 Gallon (9 lbs.) **\$39.95**
1328406 Nitron's Humic Acid - 5 Gallons (50 lbs.) **\$125.00**



Insect Frass



A Naturally Organic, Veganic, Chitin-Based Alternative To Guanos & Castings.

TARGET: An organic, plant-based, veganic food to be used in soil or hydroponically.

DESCRIPTION: If you are looking for a natural plant food for organic growing, it would be difficult to find a better choice than Insect Frass. In an untouched, natural ecosystem, insects feed on plants and then digest and expel the waste, creating a mutually beneficial symbiotic relationship. This excrement from herbivore insects is exactly what Insect Frass is made of. Insect Frass not only contains beneficial microorganisms and nutrition for the plant, it also contains the only plant-based source of chitin. Chitin is a naturally occurring molecule that triggers an auto-immune response in plants, causing them to produce natural toxins to fend off pests and fungal attackers. Chitin can be found in crustaceans, however their chitin is trapped in the shells and must be cooked out. Insect Frass is naturally broken down by the plant. Insect Frass has also been shown to accelerate maturity in plants. Insect Frass is **not** a pesticide or fungicide, will **not harm** beneficial insects or beneficial nematodes and **does not** add insects to your garden. Certified by WSDA Organic Food Production.



1300400 Insect Frass - 2 lbs. (3 lbs.) **\$26.99**
1300401 Insect Frass - 5 lbs. (6 lbs.) **\$55.99**
1300402 Insect Frass - 25 lbs. (27 lbs.) **\$131.75**
1300410 Insect Frass - 2 lbs. (case of 12) (26 lbs.) **\$260.00**
1300411 Insect Frass - 5 lbs. (case of 6) (32 lbs.) **\$270.00**

CALL FOR LARGER SIZES

Cannot be shipped to the following states: AL, AK, AR, DE, DC, GA, HI, ID, IL, IA, KS, LA, ME, MD, MS, MT, NE, NH, NJ, NM, NY, ND, OH, OK, PR, RI, SC, SD, TX, UT, VT, VA, WV, WY

Sepixa SC27 Plus Organic



Improve Soil Condition, increase root mass, plant vigor and function.

TARGET: Will work on all plant species and soil types.

DESCRIPTION: SC27 Plus Organic is a unique wettable powder blend of regenerative soil microbes. Each of the 50+ strains of bacteria and fungi create enzymes which break down organic and inorganic material. This enzyme blend forms a thick layer which covers the roots and serves the plant by communicating its unique needs; building a barrier to keep salts away from soil nutrients; signaling the plant's growth hormones to create thicker, denser roots and more. SC27 is used once per crop cycle.

SUGGESTED USE: Apply at a rate of 100 grams per acre. Use 150 grams for severe or high soil health issues. The amount of water used as a carrier is not important. It is, however, imperative to distribute evenly per acre. Inoculation directly into the soil is recommended in most cases, but SC27 can be introduced via broadcast spraying or drip irrigation as well.



1329100 Sepixa SC27 Plus Organic (1.1 lbs.) **\$49.50**

John & Bob's Penetrate Organic Liquid Biotiller

This Liquid "Biotiller" Kit Breaks Apart & Transforms Hard Clay Into Rich, Loamy Soil!

TARGET: Helps break up hard, compacted clay soils and re-energizes and opens up hard, dry, lifeless soil.

DESCRIPTION: Loamy soil is easier for plants to grow in and it supports the essential micro-organisms that are essential to plant health. Penetrate comes in two bottles that are mixed together to become active.

- Bottle 1 contains dormant, beneficial bacteria.
- Bottle 2 contains food to enliven the dormant bacteria and Saponin. Saponin is the extract from the Yucca plant which coats the clay particles that will help break up the hardest, compacted soil.

SUGGESTED USE: Use 8 oz. (1 each of A & B bottles) per 1,000 square feet mixed with 1 gal. of water. Mix equal parts of each bottle into a clean hose-end sprayer, watering can, or pump sprayer. Spray evenly over the soil or lawn. Use Penetrate twice per year for optimal effect.

1332716	8 oz.	(1.25 lbs.)	\$17.90
1332717	32 oz.	(3 lbs.)	\$45.99



Tiger 90CR® Organic Sulphur, 0-0-0-90



Lowers pH - Treats Alkaline Soil!

TARGET: Tiger 90CR Organic Sulphur is ideal for soil amendment purposes when a soil test result shows a high pH (above 7.0 and especially above 8).

DESCRIPTION: If your test results show a pH above 7.0 then many nutrients are not available to your plants and crops. Use this OMRI approved product to lower your soil pH. Tiger Organic 0-0-0-90 can also be used as a source of plant nutrient sulfur for high sulfur-using crops like oil seeds and legumes. Its controlled release formulation will supply sulfur throughout the growing season. Application recommendations should be based on soil tests and crop removal rates of sulfur.



SUGGESTED USE: 250 lbs./acre or 5 lbs./1,000 sq. ft. and monitor pH level.

1440077	Tiger 90CR Organic Sulfur - 50 lb. bag	(52 lbs.)	\$22.50
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CALL FOR LARGER SIZES

ARBICO Organics™ Soil Replenish™

Use These Mineral Solutions To Maximize Productivity, Enhance Brix & Increase Yields!

TARGET: Replenish soils lacking nutrients with resultant weak, disease fostering, drought and insect damaged, low producing plants.

DESCRIPTION: Mined right in the USA, this perfect amendment contains a blend of "Montmorillonite" (Na,Ca)0,3(Al,Mg)2Si4O10(OH)2•n(H2O) and special trace minerals (Crushed Montmorillonite Clay). These ingredients provide more than 70 essential micronutrients that elevate the beneficial ingredients necessary for healthy soil. Helps create healthier, higher yielding plants that have improved disease immunity, drought tolerance and insect damage resistance.

SUGGESTED USE: Apply dry or as a liquid, annually or as needed. For best results, apply before or at planting and with water for maximum absorption. For various trees, shrubs, evergreens and citrus, use about 1-2 lbs./ in. of trunk. For row and field crops such as corn, wheat, and alfalfa, use ≈150-200 lbs./ acre twice a year. For sugar beets and potatoes (tubers) use ≈250-lbs./acre. For potted plants and vegetables such as onions, tomatoes and lettuce, use about 4-6 oz. /cubic feet of soil or 1 lb./10 square feet of soil.

1308300	Soil Replenish - 1 lb. bag	(1.25 lbs.)	\$6.30
1308300	Soil Replenish - 10 lb. bucket	(11.5 lbs.)	\$18.00



Soft Rock Phosphate

Perfect For Restoring Soils That Have Been Depleted Of Minerals.

TARGET: Soils with poor structure and soils depleted of minerals.

DESCRIPTION: This highly soluble, Soft Rock Phosphate contains 3% phosphorous along with 18 trace minerals to maximize plant growth. The colloidal clay is usable by plants, trees, and shrubs. Grain growers use this product to restore poor soil structure, which is a common cause of production loss. Soft Rock Phosphate is a powdered form of all natural phosphorous mined in Florida and is perfect for soils that have been depleted of minerals.

SUGGESTED USE: 50 lbs. covers up to 2,500 sq. ft.

1323001	Soft Rock Phosphate - 0-3-0 - 50 lbs.	(52 lbs.)	\$27.50
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Do you know what fertilizer your plants need?

Selecting the right fertilizer for your plants is very important for optimum health and growth. Well-fed plants are healthier, more productive and more beautiful. Here are some tips to help you make your selection:

1. Understand N-P-K and why it is important

N = Nitrogen: Important for plant tissue growth.

P = Phosphorus: Transfers energy to different parts of plants.

K = Potassium: Helps carbohydrate production and regulates metabolism.

2. Identify common symptoms of nutrient deficiencies

Nitrogen Deficiency: Yellowing of leaves and light green coloration of plant parts.

Phosphorus Deficiency: Burnt leaf tips, leaves look dark green /reddish-purple.

Potassium Deficiency: Burnt leaf tips, wilting and yellowing in between veins.

Maxicrop Soluble Seaweed Powder, 0-0-17



Improves Germination & Helps Prevent Diseases.

TARGET: Soils that need additional minerals.

DESCRIPTION: Maxicrop provides more than 70 minerals, growth hormones, cytokinins, auxins, vitamins, and enzymes. Improves overall plant vigor and can prevent diseases such as downy and powdery mildews.

SUGGESTED USE: 1 tsp./gal. water or 2 lbs./acre over the season.

1313001	10.7 oz.	(1 lb.)	\$19.99
1313002	27 oz.	(2.75 lbs.)	\$35.00
1317202	44 lbs.	(44 lbs.)	\$399.00



Maxicrop Liquid Seaweed, 0-0-1

Boost Plant And Lawn Growth With This Concentrated & Nutrient Rich Fertilizer!

TARGET: Poor root development, slow growth, and disease caused from lack of minerals, nutrients and enzymes.

DESCRIPTION: Made from *Ascophyllum nodosum* seaweed from Norway, Maxicrop contains over 70 different elements, vitamins and minerals that activate enzyme systems and act as stimulants for root and plant growth. This product will also condition soil, increase pest resistance and is a balanced fertilizer. A harvested, renewable resource, this product is a sustainable choice to boost the health of your indoor/outdoor plants, gardens, lawns and crops.

SUGGESTED USE: The 32 oz. concentrate makes approximately 32 gal. See website or label for specific application rates.

1313005	32 oz.	(3 lbs.)	\$14.00
1313006	1 Gallon	(11 lbs.)	\$27.25
1313007	2.5 Gallons	(25 lbs.)	\$58.00



Algamin Kelp Meal Fertilizer, 1-0-2



Successful Growers Choice To Correct Deficiencies & Improve Plant Nutrition!

TARGET: Deficient soils that need macro nutrients.

DESCRIPTION: Algamin Kelp Meal (1-0-2) is composed of slow-dried, ground seaweed - cleaned, desalted and dust free. This is a rich organic source of over 70 trace minerals (including calcium, magnesium, sulfur, and chlorine) as well as vitamins, amino acids and plant hormones. It is an excellent soil additive that stimulates microbial activity and provides a strong supply of naturally chelated nutrients.

SUGGESTED USE: Incorporate into potting soils, seed and transplant beds. Top or side dress gardens and farms. Excellent for hydroponic growing. 1 cup/100 sq. ft.; 55 lbs. treats ≈3,000 sq. ft.; 2,200 lbs. treats ≈3 acres.

1314801	Algamin Kelp Meal Fertilizer - 5 lbs.	(6 lbs.)	\$16.75
1314804	Algamin Kelp Meal Fertilizer - 55 lbs.	(58 lbs.)	\$87.00



Maxicrop Liquid Seaweed, 0-0-1 +2% Iron

For Trees, Flowers, Lawns, Fruits & Vegetables!

TARGET: Stressed plants and seed starting.

DESCRIPTION: Maxicrop is excellent for soaking seeds to improve germination. It also can be used as a soak for bulbs to increase their vigor. Apply it to seedlings, and watch them grow into healthy, vigorous plants. Maxicrop will strengthen cuttings, bare root trees and shrubs before and after transplant.

SUGGESTED USE: General application rate is 1 capful/gal. of water. For lawns, cuttings and rootings use 2 capfuls/gal. of water.

1313035	32 oz.	(3 lbs.)	\$14.30
1313036	1 Gallon	(11 lbs.)	\$28.80
1313037	2.5 Gallons	(25 lbs.)	\$55.50





Down To Earth™ (DTE) organic fertilizers are ideal for enhancing soil fertility and stimulating plant growth in a sustainable and environmentally friendly way. Organic fertilizers add nutrients to the soil for uptake by plants and for use by the myriad microorganisms that inhabit healthy, productive soil. Try the new “Mini” size in your garden this season!

DTE Acid Mix, 4-3-6

One Of The Best Fertilizers That Is Specially Formulated For Acid Loving Plants!

1300200	Down To Earth Acid Mix Mini - 1 lb. (New)	\$5.75
1300201	Down To Earth Acid Mix - 6 lbs.	\$11.50

Larger sizes available - please go online or call.

DTE All Purpose Mix, 4-6-2



Fertilizer For All OF Your Growing Needs!

1300209	Down To Earth All Purpose Mix Mini - 1 lb. (New)	\$5.75
1300207	Down To Earth All Purpose Mix - 6 lbs.	\$11.95

Larger sizes available - please go online or call.

DTE Bat Guano, 9-3-1



High-Nitrogen Fertilizer From Bat Guano.

1300000	Down To Earth Bat Guano Mini - .25 lb. (New)	\$5.75
1300001	Down To Earth Bat Guano - 2 lbs.	\$8.99
1300002	Down To Earth Bat Guano - 10 lbs.	\$34.00

DTE Bio-Live, 5-4-2



A Nutrient And Microbe-Rich Fertilizer!

1300260	Down To Earth Bio-Live - 5 lbs.	\$15.20
1300261	Down To Earth Bio-Live - 25 lbs.	\$60.00
1300262	Down To Earth Bio-Live - 50 lbs.	\$95.00

DTE Blood Meal, 12-0-0



High In Nitrogen - The Key For Leafy Greens & Healthy Bulbs!

1300300	Down To Earth Blood Meal Mini - .5 lb. (New)	\$5.75
1300301	Down To Earth Blood Meal - 5 lbs.	\$22.50
1300302	Down To Earth Blood Meal - 20 lbs.	\$80.00
1300303	Down To Earth Blood Meal - 50 lbs.	\$148.50

Some shipping restrictions apply to certain states. Go online or call to confirm availability to your ship state.

DTE Bone Meal, 3-15-0

Help Your Plants Have the Best Chance to Establish Healthy Roots & Flowers!

1300219	Down To Earth Bone Meal - 6 lbs.	\$15.95
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Larger sizes available - please go online or call.

DTE Crab Meal, 4-3-0



A Versatile Fertilizer That Provides Nutrients, Is An Excellent Compost Amendment & Has Nematicidal Properties!

1300225	Down To Earth Crab Meal - 5 lbs.	\$12.50
1300226	Down To Earth Crab Meal - case 6, 5 lbs.	\$56.50

Larger sizes available - please go online or call.

DTE Rose & Flower Mix, 4-8-4

USDA Organic. A Nutrient-Rich Fertilizer That Invigorates Roses, Bulbs & Flowering Plants!

1300233	Down To Earth Rose & Flower Mini - 1 lb. (New)	\$5.75
1300231	Down To Earth Rose & Flower Mix - 6 lbs.	\$11.50

Larger sizes available - please go online or call.

DTE Seabird Guano, 0-11-0

Phosphorous Rich Fertilizer & An Herb Grower's Favorite Choice!

1300023	Down To Earth Seabird Guano - 5 lbs.	\$15.10
1300024	Down To Earth Seabird Guano - 20 lbs.	\$49.50

Larger sizes available - please go online or call.

DTE Vegan Mix, 3-2-2

A Veganic Fertilizer for All Your Growing Needs!

1300237	Down To Earth Vegan Mix - 6 lbs.	\$11.95
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Larger sizes available - please go online or call.

LAWN CARE & WEED CONTROL

PRE-EMERGENTS

Orland's Safe-T-Weed®

Corn Gluten Pre-Emergent Herbicide That's Great For Lawns & Gardens!

TARGET: It is effective against most common lawn and garden weeds. Use in your lawn, garden or fields before weeds sprout.

DESCRIPTION: Orland's Safe-T-Weed is a pre-emergent natural corn gluten herbicide that kills the tiny feeder roots of sprouting seeds. It does not harm established plants or vegetable and flower sprouts that have true leaves. While it controls sprouting weed seeds, it does NOT control established perennial weeds such as dandelions. The EPA found Orland's Safe-T-Weed so friendly to the environment that it is exempted from EPA herbicide regulations. Used as directed, children or pets can play on treated areas immediately after application and it will not harm beneficial insects, soil organisms or pond or stream life. In addition, its high nitrogen content (9-0-0) works to green up your lawn.

SUGGESTED USE: Safe-T-Weed is easy to spread using a can or cup for small areas. Use a spreader for lawns. One pound treats 50 square feet of flowerbed, garden or lawn.

1226803	25 lb. Bag	(27 lbs.)	\$35.00
1226802	2+ 25 lb. Bags	(53 lbs. ea.)	\$65.50
1226801	1 Ton*		CALL

*Call for freight quote.



Earth Harvest Gluten-8 Liquid Corn Gluten - Set of 2

Easy To Apply Liquid Weed Control Without The Effort Of Lifting A Heavy Bag Of Corn Gluten Meal.

TARGET: Pre-emergent weed control and mild nitrogen fertilizer.

DESCRIPTION: Water-soluble and derived from corn gluten meal, it provides pre-emergent control of annual grasses and broadleaf weeds without the effort of applying the granular corn gluten. This product is packaged in a container that has a hose-end spray head for a reliable application.

SUGGESTED USE: A 2 quart set of Gluten-8 represents a 40 pound bag of corn gluten meal and treats approximately 2,000 sq. ft.

1273015	Set of 2 - 32 oz. Hose End	(7 lbs.)	\$29.45
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BROADLEAF

Avenger® Weed Killer

Fast-Acting Natural Herbicide.

TARGET: Broadleaf, crab grass and other unwanted weeds.

DESCRIPTION: Avenger Weed Killer is a natural citrus oil based non-selective herbicide that eliminates broadleaf, crab grass and other unwanted weeds naturally and quickly.

SUGGESTED USE: Varies depending on size of weeds. The 24 oz. RTU is already mixed at a 1:3 ratio. Concentrate: Small annual weeds use 1:6 ratio; large annual weeds use 1:4.5 ratio; Hard to control weeds use 1:3 ratio.

1453808	24 oz. RTU*	(2 lbs.)	\$9.99
1453809	1 Quart Concentrate	(3 lbs.)	\$20.50
1453810	1 Gallon Concentrate	(10 lbs.)	\$67.50
1453812	5 Gallon Concentrate	(48 lbs.)	\$264.00

*Cannot be shipped to the following states: DC, PR, SD, VI



Soil Mender® Enhanced Vinegar RTU Herbicide

Kill Those Pesky Weeds As They Pop Up!

TARGET: Annual weeds including foxtail, lambsquarters, pigweed, and velvetleaf.

DESCRIPTION: This is a ready-to-use blend of 10% vinegar, orange oil, molasses is an effective contact weed killer.

SUGGESTED USE: Use as a contact herbicide, shake bottle before use.

1442515	1 Quart RTU	(3 lbs.)	\$18.99
1442516	1 Gallon RTU	(10 lbs.)	\$35.00



Summerset AllDown® Organic Herbicide



A Worry-Free Alternative To Oil-Based Herbicides.

TARGET: Annual broadleaf weeds, perennial weeds, annual and perennial grasses.

DESCRIPTION: AllDown acts as a burn-down herbicide by attacking the protective cuticle of the plant, causing the plant to rapidly weaken and die. The active ingredients, citric and acetic acid, will not persist in the soil and build up to harmful levels. As with other weed killers, be sure to apply AllDown only on those plants that you want to remove. AllDown comes in two formulations: RTU and Concentrated. The concentrated version is OMRI certified, so you can be confident that the ingredients have been scrutinized and found to conform to strict organic standards.

SUGGESTED USE:

Concentrate: Mix 1 part AllDown Concentrate to 3 parts water sufficient to treat at an application rate of 7.5-15 fl. oz. per 100 sq. ft. Shake or stir well. For larger annuals and burndown of perennial weed growth, mix stronger by using 1 part AllDown to 2 parts water.

RTU: Apply spray solution at a rate of 7.5-15 fl. oz. per 100 sq. ft.

1453862 Summerset All Down RTU - 32 oz. Spray (2.5 lbs.) **\$12.99**

1453860 Summerset All Down Concentrate - 1 gal. (9 lbs.) **\$49.95**

Cannot be shipped to the following states: NM



AXXE® Broad Spectrum Herbicide



Clean Up Weeds With This Herbicidal Soap Product!

TARGET: Contact spray control or burn down of weeds and grasses.

DESCRIPTION: Controls grasses, broadleaf weeds and most mosses and lichens. Works within hours of application, leaves no residue, does not migrate through soil; allowing for immediate replant after use. This spray is intended to be applied to places with undesirable plant growth. Caution should be taken when using close to desired plants.

SUGGESTED USE: Apply as contact spray control or burn down of weeds and grasses for field crops, food crops, pastures, turf, landscapes, greenhouses and around buildings and industrial sites. Repeat spray applications as necessary. Suggested percent volume/volume solutions of AXXE Broad Spectrum Herbicide to use for application:

- Use a 6-8 % Weeds of 1-inch height or less (and control of liverworts and mosses).
- Use an 8-10% Weeds between 1-4 inches in height.
- Use a 10-13% Weeds over 4 inches in height (and hard to control weeds).
- A 15% Maximum labeled rate for use and can be used to control perennial weeds or extremely dense weed growth.

1222600	2.5 Gallons	(29 lbs.)	\$197.00
1222601	5 Gallons	(52 lbs.)	\$380.00
1222602	30 Gallons*	(300 lbs.)	\$1,750.00
1222603	55 Gallons*		CALL

*Call for freight quote. Call for larger sizes.



BROAD SPECTRUM

BONIDE® Burnout

Fast Acting Weed & Grass Killer!

TARGET: Unwanted grass and weeds.

DESCRIPTION: Uses natural ingredients to kill all types of weeds, unwanted grass, and their roots. This fast acting solution is great from driveways, sidewalks, around the base of mature trees, fence lines, around buildings, and anywhere weed control is needed. This product is rainproof when dry and will work in temperatures as low as 40°F.

SUGGESTED USE: For RTU/PNS: Spray on broadleaf and grassy weeds, making sure all of the foliage is wet. For concentrate: Use 1:3 parts water, 1 gal. of mix covers about 1,500 sq. ft. Repeat application as necessary.

1453775	1 Quart Concentrate	(2.5 lbs.)	\$21.00
1453776	1 Gallon Concentrate	(9 lbs.)	\$48.00
1453777	2.5 Gallons Concentrate	(22 lbs.)	\$99.00
1453778	1 Quart RTU	(3 lbs.)	\$11.50
1453779	PNS 1.33 Gallon RTU	(12 lbs.)	\$42.00



SaferGro® Weed Zap®



Get Rid Of Weeds In A Zap!

TARGET: Small broadleaf and grassy weeds.

DESCRIPTION: This contact, non-selective, broad spectrum, biodegradable, foliar herbicide is made from clove and cinnamon oils. SaferGro Weed Zap will only control actively growing emerged green vegetation and controls annual and perennial broadleaf and grassy weeds. It will only affect plants that are coated with the spray solution and does not damage non-green woody plants.

SUGGESTED USE: Use 4.6 oz. per 1 gallon of water, 32 oz. per 5 gallons of water, 64 oz. per 10 gallons of water, or 5 gallons per 100 gallons of water. Cover the entire surface of the weed and spray to the point of run off. The use of a spreader/sticker may increase contact and efficacy of treatment.

1811108	SaferGro Weed Zap - 32 oz. RTU	(3 lbs.)	\$10.89
1811106	SaferGro Weed Zap - 1 Quart	(3 lbs.)	\$29.70



REPELLENTS & TRAPS

Innovative Technology Ultrasonic Rodent Repeller

Plug-In Ultra-Sonic Rodent Control.

TARGET: Rodents.

DESCRIPTION: You can chase away those mice, voles, rats and other unwanted rodents with a product that really works! Ultrasonic Rodent Repellers are the perfect addition to your indoor rodent control measures. Perfect for stables, outbuildings and the house, too. One unit is required per average-sized room.



SUGGESTED USE: Simply plug your Rodent Repeller into an outlet 2-4 feet above the floor, aimed at the area you wish to control. It costs less than 20 cents a month to operate. Should not be used around pet rodents or rabbits.

90 Day Money-Back Guarantee, Plus a 3-year Manufacturer's Warranty.

1255006	Single Plug-in Speaker	(1 lbs.)	\$13.50
1255008	3-Pack Single Plug-in Speaker	(1 lbs.)	\$27.00
1255007	3 Speaker Plug-in	(1 lbs.)	\$26.00

BONIDE® Mouse Magic Mouse Repellent

Repel Rodents With Essential Oils From Homes, Sheds, Garages, Campers, Barns, Cellars & More!

TARGET: Mice.

DESCRIPTION: Repels with essential oils, such as spearmint and peppermint. Masks the scent of trails used to infest areas, and triggers escape and avoidance behaviors in rodents. One pack will treat an averaged sized room for approximately thirty days when used according to the directions.



SUGGESTED USE: Distribute where mice or rodents may feed, nest, or travel. Place near stored animal foods, near nesting and feeding entry ways, or under large appliances. Use one pack for an average size room, and increase the number of packs used, until desired level of control is reached.

1287710	4 Pack	(.5 lb.)	\$9.00
1287711	12 Pack	(1 lb.)	\$22.50

Cannot be shipped to the following states: DC, IN, KY, NM



The Smart Mouse Trap

A Perfect & Friendly Solution For Trapping Pesky Mice!

TARGET: Mice.

DESCRIPTION: This innovative, no-kill and easy-to-use trap is made of green transparent plastic and has two stainless steel springs that maneuver the special trap door. As a mouse enters the trap to retrieve a snack, its minimal weight releases the spring trigger closing the door behind them! The little critter will then remain in the trap enjoying its treat until safely released back into the wild. Measures 3" x 7" x 2.5".



SUGGESTED USE: Bait with a "saltine" cracker (add peanut butter for extra appeal) in the bait holder, set the trap and check frequently. Release mouse as soon as possible! Trap can be cleaned and reused.

1255001	Smart Mouse Trap - 1 Per Box	\$14.20
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Repeater™ & Little Pete® Multiple Catch Mouse Traps

Catch & Release Multiple Mice At Once!

TARGET: Mice.

DESCRIPTION: These galvanized metal traps are designed to allow mice to enter the trap, while simultaneously latching door shut! See-through, and reusable. The smaller trap can hold up to about 9 mice at one time, the larger trap can hold approximately 30 mice!



SUGGESTED USE: Does not require bait. For best results, place a fragrant snack like peanut butter on a cracker into the trap. Place hinged side along floor boards and check trap regularly. Release mice promptly. Replace snack in trap, reset, and reuse!

1255101	Little Pete Multiple Catch Mouse Trap	(1.5 lbs.)	\$14.75
1255100	Repeater Multiple Catch Mouse Trap	(1.5 lbs.)	\$16.55

BONIDE® Repels-All® Animal Repellent

Natural Ingredients That Repel A Variety Of Critters!

TARGET: Armadillos, beavers, birds, cats, crows, chipmunks, deer, groundhogs, mice, porcupines, rabbits, raccoons, rats, skunks, shrews, and voles.

DESCRIPTION: A comprehensive animal repellent for use on plants and property structures for up to 2 months per each application. Containing a mixture of dried blood, putrescent egg, garlic, fish oil, cloves, and onions it will repel animals with both smell and taste.



SUGGESTED USE: Rainfast after 6 hours. Do not use on edibles. Shake before using and mix the concentrate with appropriate amount of water. The 1 qt. concentrate will make up to 2 gallons of repellent. Apply as needed with any type of sprayer and water afterwards.

1287601	1 Quart RTU	(3 lbs.)	\$15.28
1287600	1 Quart Concentrate	(3 lbs.)	\$21.50

RTU cannot be shipped to the following states: IN, NM

Concentrate cannot be shipped to the following states: AK, IN, NM

GOPHER & MOLE

Chase™ Granular Mole & Gopher Repellent

Biodegradable, Environmentally Friendly & Easy-To-Apply.

TARGET: Gophers & moles.

DESCRIPTION: This biodegradable, environmentally friendly and easy to apply granular repellent will help eliminate moles and gophers from lawns and gardens. This product can be used when tunnels or cone shaped mounds are present and from the spring until late in the fall without yellowing lawns. When the active ingredient of the repellent is ingested by moles or gophers, it causes digestive interruption, deterring pests from inhabiting treated areas.



Active Ingredients:

- Castor Oil.....9.5%
- Sodium Lauryl Sulfate.....4.5%

Inert Ingredients:

- Corn Cob Granules.....76.0%

SUGGESTED USE:

- Use at a rate of approximately 1 lb. / 1,000 sq. ft.
- Slowly adjust and test the rate of dispersal when using a hand spreader. Start out with an area of about 7 ft. by 7 ft. on a low speed and use only about 1/2 lb. of repellent.

1287900	6 lbs.	(10 lbs.)	\$23.50
1287901	32 lbs.	(40 lbs.)	\$79.00

Plantskydd®



Effectively Repels Rabbits & Other Small Critters For Up To 8 Weeks.

TARGET: Repels rabbits, chipmunks, squirrels, voles, nutria, hares and opossum.

DESCRIPTION: Repels by emitting an odor that browsing animals associate with predators, thus stimulating a fear-based response. As their sense of smell is so keen, they do not sample; they look for food elsewhere. Once applied, this granular form will be effective on the ground for ~4-8 weeks. As Plantskydd Repellent decomposes, it fertilizes the ground where it is applied. Monitor your area for damage and reapply when granules have decomposed into the ground.



SUGGESTED USE: Apply in a 12-inch band around the perimeter of the area you wish to protect. 1 lb. ~50 ft. band. 1 lb. covers 600 linear ft. of perimeter, 3 lbs. cover 1,800 linear ft. of perimeter, 7 lbs. cover 4200 linear ft. of perimeter.

1270101	1 lb. Granular Shaker	(2 lbs.)	\$14.75
1270103	3 lb. Granular Shaker	(4 lbs.)	\$28.70
1270107	7 lb. Granular Shaker	(8 lbs.)	\$47.50

Chase™ Liquid Mole & Gopher Repellent

This Easy-To-Use Liquid Repellent Will Help Eliminate Moles, Gophers, Voles, Armadillos And Other Burrowing Animals From Lawns & Gardens!



TARGET: Gophers & moles.

DESCRIPTION: Made from castor oil, this biodegradable, environmentally friendly and easy to apply liquid repellent will help eliminate pests like moles and gophers from lawns and gardens. This product can be used when tunnels or cone shaped mounds are present and from the spring until late in the fall without yellowing lawns. When the active ingredient of the repellent is ingested by pests it causes digestive interruption, deterring pests from inhabiting treated areas.

Active Ingredients:

- Castor Oil USP or equivalent.....65%
- Sodium Lauryl Sulfate.....15%

Inert Ingredients:

- Water.....20.0%

SUGGESTED USE:

- If soil is dry, water for fifteen minutes before applying Chase
- Shake or stir well before using. Begin spraying Chase to area, using a systematic method to assure full coverage. In order to ensure complete treatment, it's recommended that you slightly overlap each area.

1287902	32 oz.	(3 lbs.)	\$25.00
1287903	1 Gallon	(10 lbs.)	\$48.50



ANT CONTROL

ANT CONTROL

SaferGro® Ant Out®



End Your Ant Infestation With This Effective Spray!

TARGET: Kills ants, spiders, silverfish, crickets, etc.

DESCRIPTION: A botanical insecticide that kills ants at all stages. Typically ants die within seconds of contact. Can prevent re-infestation for up to 4 weeks. This biodegradable product is derived from essential oils and it leaves the treated area with an enjoyable clove scent.

SUGGESTED USE: Dilute at a ratio of 2.5 oz/gal. of water. Mix and spray 8-12" from infested area until surface is wet. Repeat when necessary. May discolor, test before application. Do not apply to seedlings, leaves, flowers, or fruits.



1811103	32 oz. RTU	(3 lbs.)	\$10.89
1811102	1 Gallon Concentrate	(10 lbs.)	\$88.00
1810500	1 Case (4 Gallons)	(38 lbs.)	\$250.00
1810501	2 ct. of 2.5 Gallons	(47 lbs.)	\$306.00
1810502	55 Gallon drum*	(550 lbs.)	CALL

*Call for freight quote. Call for larger sizes.

Monterey Ant Control



Adios Ants! This OMRI Listed Product Is The Answer You Have Been Looking For!

TARGET: Ants, earwigs, cutworms, sowbugs, pillbugs, crickets, slugs and snails. **Not for:** Fire ants, harvester ants, pharaoh ants and carpenter ants.

DESCRIPTION: This easy to apply granular product is made from iron phosphate and Spinosad – a beneficial bacteria that effects insects' nervous systems.

SUGGESTED USE: For use outdoors and on edible crops. Use about 1 tsp./sq. yd. or 1 lb./2000 sq. ft. Apply uniformly on grounds or soil and can be applied with a hand spread for larger areas. Apply only 3x a month, and do not apply within 3 days of harvest.



1257895	1 lb. Shaker Can	(1 lb.)	\$11.50
1257896	2.5 lb. Jug	(2.5 lbs.)	\$21.50



FIRE ANT CONTROL

Orange Guard Fire Ant Control



Control Fire Ant Mounds Without Risking The Health Of Your family, Pets Or The Environment.

TARGET: Fire ants.

DESCRIPTION: Orange Guard Fire Ant Control contains ingredients which are on the FDA GRAS list (generally recognized as safe). Orange Guard Fire Ant Control is water based, so further dilution is easy. It works by dissolving away the waxy coating on the ant's exoskeleton, which clogs their spiracles (how they breathe), and they suffocate.



SUGGESTED USE: Puncture the mounds and then saturate them, using 1/2 gallon of either full strength or diluted (3 parts of water to 1 part Orange Guard Fire Ant Control). Dilution does not harm grass and covers approximately 8 mounds.

1460005	1 Gallon	(10 lbs.)	\$32.75
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Registered in Southern States and CA only, (where fire ants are found).

This product CAN ONLY be shipped to the following states: AL, AZ, AR, CA, CT, FL, GA, LA, MS, NC, NE, NC, OK, SC, TN, TX

CRAWLING INSECT CONTROL

Orange Guard - Natural Insect Spray



Works Against A Broad Range Of Insects On Contact, Keeps Repelling For Weeks.

TARGET: Crawling pest insects.

DESCRIPTION: Orange Guard is guaranteed to provide effective control against a broad range of insects including cockroaches, ants, fleas, locusts, weevils, and many other hard to control insects. Orange Guard contains d-Limonene, which is steam distilled orange peel oil. Orange Guard may be used around food, humans and pets and is EPA registered. Smells great too!



SUGGESTED USE: For indoor use, spray from 12 inches directly on pest insects. Saturate until visibly wet. Wait 3 minutes, then wipe excess with damp cloth. Apply to pet bedding to repel fleas. Keeps repelling for weeks. For outdoor use, generously spray perimeter of home and anywhere pests can enter to make a barrier of protection.

1460001	32 oz. Spray Bottle	(3 lbs.)	\$10.97
1460002	1 Gallon with Sprayer	(10 lbs.)	\$34.00
1460003	Replacement Sprayer	(.25 lb.)	\$5.30

Safer® Brand Ant & Crawling Insect Killer, Diatomaceous Earth

Long Lasting, Odorless, Non-Staining Insect Control Powder!

TARGET: Kills cockroaches, ants, silverfish, fleas and many other crawling insects.

DESCRIPTION: DE is an odorless, nontoxic, white powder that is made of finely milled fossilized shells of organisms called diatoms. DE slices the waxy coat of insects causing pests to dehydrate and die. Use the Dustin Miser (see online) for easy application.

SUGGESTED USE: For indoor & outdoor use, sprinkle a light layer of Diatomaceous Earth in areas where pests frequent, including under stoves, cabinets, sinks, garbage cans, window and door frames and sills, entrance ways, sewer pipes and drains, and in cracks and crevices. Repeat treatment as needed. Use on hard surfaces only.



1219301	7 oz. Bottle	(1 lb.)	\$9.00
1256701	4 lb. Bag	(5 lbs.)	\$14.40

Cannot be shipped to the following states: DC

Diatomaceous Earth – Food Grade



Multi-Purpose Food Grade DE.

TARGET: Pest insects, anti-parasite for horses & livestock.

DESCRIPTION: Diatomaceous Earth (DE) is an odorless powder that has an abrasive quality similar to fine pumice. Is effective for deterring insect pests that crawl and have an exoskeleton. Use to combat: ants, bedbugs, crickets, cockroaches, earwigs, silverfish, and more.

SUGGESTED USE: Sprinkle a light layer where crawling insects have been a problem – stoves, countertops, cabinets, window and door frames, patios. Repeat treatment as needed or after cleaning the area. Great in the garden for control of ants and sow bugs. Sprinkle along rows or around plants that need protection. Re-apply after rain.



1218207	2.5 lb. Jug	(4 lbs.)	\$13.95
1218210	10 lb. Bag	(13 lbs.)	\$25.00
1218204	50 lb. Bag	(*Free Shipping)	\$61.00



*FREE SHIPPING on 50 lb. bag only; ships via Ground ONLY.

Beneficial Nematodes - Triple Threat

Biological Control For Crawling Insects!

The Triple-Threat Combo includes one package of each of the Beneficial Nematodes that ARBICO Organics

supplies: *Heterorhabditis bacteriophora*, *Steinernema feltiae* and *Steinernema carpocapsae*.



Use the Triple Threat to combat a broad variety of soil dwelling pests! Safe for use around home and gardens! For more info, see pages 16-17!

J.T. Eaton™ Answer® Boric Acid Insecticidal Dust

A Boric Acid Barrier That Beats Pests!

TARGET: Roaches, palmetto bugs, ants, silverfish, fleas & more.

DESCRIPTION: Boric acid is the refined crystalline material derived from Borax. When ingested by an insect, it causes digestion disruption, and the insect starves to death. When crawling insects return to their nests to die, other insects consume them, which spreads the insecticide, killing even more.

SUGGESTED USE: The 16 oz. bottle has a puffer top to easily spread its contents anywhere crawling insects may enter or hide, such as windowsills, doorsills, under cabinets, behind appliances, around floor drains, water pipes and cracks & crevices along baseboards. Ingredients: Contains boric acid and non-caking agent.



1452420	16 oz. Puffer Bottle	(1.5 lbs.)	\$8.00
1452425	5 lb. Tamper-evident Pail	(6 lbs.)	\$25.00
1452430	25 lb. Tamper-evident Pail	(27 lbs.)	\$67.50

Essentria™ G Granular Insecticide

A Granular That Handles A Handful Of Outdoor Pests!

TARGET: Ants, bermuda grass mites, centipedes, chiggers, chinch bugs, clover mites, cockroaches, crickets, earwigs, fall armyworms, fleas, leafhoppers, millipedes, sowbugs/pillbugs, and other insect pests.

DESCRIPTION: This quick and long-lasting natural granular insecticide uses essential botanical oils clove, thyme and wintergreen to treat various pests. Easy to use outdoors on landscapes, turf, building facilities and around organic operations, sensitive areas such as schools, and in aquatic environments.

SUGGESTED USE: Use with a hand spreader. For treatments around buildings, apply uniformly a band about 5-10 ft. wide. For landscapes and turf, use around 3-5 lbs./1000 sq. ft. Water in, applying about 1/8 in. - 1/4 in. of water without puddling. For ant mounds, use about 1-2 tsp./nest. For red imported fire ants, use around 1/2 cup/nest and make a 2 ft. band around nest.



1273050	Essentria G Granular Insecticide - 22 lbs.	(25 lbs.)	\$67.50
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Dozens of Botanical & Biological Insecticides Available Online. Visit arbico-organics.com.

INDOOR PEST CONTROL

Revenge® Pantry Moth Trap

This Pantry Moth Trap Is Environmentally Sound and Uses Pheromone Lures To Attract The Moths & Trap Them!

TARGET: Adult moths. (Indian meal moths, almond moths and raisin moths)

DESCRIPTION: This trap attracts and captures adult flour moths. These moths are found in flour, rice, crackers, dog food, bird seed and cereal. Trap works by luring male moths into trap with a pheromone (insect hormone) that female moths use to attract males for mating. Reducing the number of male moths reduces egg laying and mating. It is a good idea to keep a few of these traps on hand. Traps work without harmful chemicals!

SUGGESTED USE: Use one or two traps for an average sized room or closet and they will last 3 months.

1280302	Revenge Pantry Moth Trap - 2 Pack	(.5 lb.)	\$6.10
1280303	Revenge Pantry Moth Trap - 2 Per Pack/Pack of 3	(1 lb.)	\$17.25
1280304	Revenge Pantry Moth Trap - 2 Per Pack/Pack of 6	(1.5 lb.)	\$31.50
1280305	Revenge Pantry Moth Trap - 2 Per Pack/Pack of 12	(2 lbs.)	\$60.00



BioCare® Clothes Moth Trap

Uses A Natural Pheromone Lure!

TARGET: Adult male clothes moths.

DESCRIPTION: The Clothes Moth Trap attracts and captures adult male clothes moths. It signals when an infestation is present, but does not control larvae on clothing or personal objects. Female moths are especially attracted to oily or soiled fabrics, where they lay their eggs. The moths avoid light and are therefore difficult to find and identify. The Clothes Moth Trap catches webbing clothes moths during their mating season by using a natural pheromone lure. If moths are found in the trap, take immediate measures to control the larvae. Search out damaged fabrics and destroy, dry clean or freeze them (in a deep freeze for at least 14 days).

SUGGESTED USE: Open box carefully. Remove inner parts. Peel release paper from enclosed sticky pad. Remove lure from foil pouch and place in center of sticky pad. Fold top and bottom flaps inside box. Insert pad as shown on back of package. Place trap where moths occur (bedroom closets). Use tab on side of box to pin trap to a wall at eye level. Replace every 12 weeks, or sooner if full of insects. Use traps all year round.

1260702	Clothes Moth Trap	(.5 lb.)	\$8.35
1260703	Clothes Moth Trap - Pack of 3	(1 lb.)	\$23.25
1260704	Clothes Moth Trap - Pack of 6	(1.5 lbs.)	\$42.00
1260705	Clothes Moth Trap - Pack of 12	(2 lbs.)	\$81.00



Terro® Ant Baits

Two Ways To Get Rid Of Ants!

TARGET: Sugar and grease-eating ants including argentine, ghost, cornfield, pavement, acrobat, white footed, little black, odorous house, crazy and big headed ants.

DESCRIPTION: Comes in 2 formulations, RTU bait stations and Build-Your-Own.

SUGGESTED USE: Locate indoors or outdoors. Use remaining bait to make your own bait stations with paper or cardboard.

1257403	6 (pre-filled) Bait Stations	(.5 lb.)	\$7.89
1257401	Build-Your-Own Ant Killer Kit	(.25 lb.)	\$5.40



BioCare® Window Fly Trap

A More Attractive Way To Capture Flies!

TARGET: Houseflies, cluster flies, garbage flies, blowflies, or blue bottle flies.

DESCRIPTION: Designed to capture flies in your southern and western exposure windows, which they are naturally attracted to. Unobtrusive, these clear sticky traps have a small blue pattern on them and they utilize a pheromone attractant and adhesive to lure and trap unwanted flies.

SUGGESTED USE: Peel off paper and attach to windows, tiles, metal, or wooden surfaces. Once placed, remove other paper to reveal sticky trapping side. Replace trap every 2-3 months or when full. Dispose in garbage.

1280601	Window Fly Trap - 4-Pack	(.2 lb.)	\$4.75
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Glass Fruit Fly Trap

An Elegant Solution!

TARGET: Fruit flies.

DESCRIPTION: Made from beautiful colored glass! This glass jar is 5 inches tall, has a unique design – shaped like a mini volcano, and uses a bait made from apple fruit essence, a floral odor attractant, hexanol (a fruit essence).

SUGGESTED USE: Mix included bait with water and dishwashing soap and pour into the trap. Bait is good for 10-14 days.

1280903	Glass Fruit Fly Trap w/Lure	(1.25 lb.)	\$13.95
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Lice B Gone

This Lice Treatment Kit Removes Lice & Nits Without Harmful Pesticides Or Irritating Chemicals.

TARGET: Lice and nits.

DESCRIPTION: Lice-B-Gone is a pesticide-free multi-enzyme shampoo made from vegetable extracts. This shampoo works when other formulations with pyrethroids may not. Lice-B-Gone removes lice and nits without harmful pesticides or irritating chemicals. Most cases require only one application.



1888806	Lice B Gone Cap	(.5 lb.)	\$1.60
1888805	Lice B Gone Nit Comb	(.25 lb.)	\$3.15
1888808	Lice B Gone - 4 oz.	(.5 lb.)	8.98
1888809	Lice B Gone - 16 oz.	(1.5 lb.)	\$18.97
1888810	Lice B Gone - 1 Gallon	(9 lbs.)	\$69.95
1888802	Lice B Gone Kit - 4 oz. (2 caps/1 comb)	(1 lb.)	\$13.50
1888804	Lice B Gone Kit - 16 oz. (2 caps/1 comb)	(2 lbs.)	\$19.95
1888803	Lice B Gone Kit - 1 Gallon with sprayer	(9 lbs.)	\$74.50

J.T. Eaton™ Kills Bedbugs & Crawling Insect Powder

Treats Bedbugs & Crawling Pest Insects!

TARGET: Crawling insects like ants, bedbugs, boxelder bugs, cockroaches, crickets, fleas, silverfish, ticks, sowbugs, millipedes and houseflies.

DESCRIPTION: It is composed of finely milled fossilized shells of minuscule organisms called diatoms and no other additives. The microscopically fine, sharp edges desiccate the insects' exoskeletons upon contact, and the pests dehydrate and die within 1-2 days. It is odorless, nontoxic. It remains effective as long as the product stays dry. This product is food grade.

SUGGESTED USE: Squeeze the container to apply light puffs to mattress surfaces, tufts and seams. Treat bed parts, joints and interior areas. Treat all cracks and crevices in the bedroom. For Fleas: Treat pet quarters, bedding, indoor kennel areas, and pet resting areas. Replace any product that becomes wet. Apply monthly or as needed. For Ants and other crawling pests: Sprinkle in light layers under stoves, cabinets, sinks, garbage cans, along window and door frames, sewer pipes and drains, or anywhere crawling insects frequent. Repeat treatment as needed.



1219303	7 oz. Puffer	(1 lb.)	\$7.99
1219305	7 oz. Puffer - Case of 12	(12 lbs.)	\$69.00



First Response Bed Bug Monitor

Detect & Trap Bed Bugs!

TARGET: Bed bugs.

DESCRIPTION: A portable and easy-to-use monitoring and trapping device for bed bugs. Uses heat, carbon dioxide, and a pheromone lure to attract and trap the bed bug. You can use them at home or while traveling. The traps are good overnight and are designed to be used to detect the presence of all stages of bedbugs.

SUGGESTED USE: No need for electricity. Follow directions in the package to ensure optimal success.



1240303	First response Beg Bug Monitor	(1 lb.)	\$14.40
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Avenger® Natural Bed Bug Killer™

Works Within Minutes Against All Stages Of Bed Bugs Without Harsh Pesticides!

TARGET: Bed bugs-*Cimex lectularius*.

DESCRIPTION: Contains plant extracts of *Euginia Carophylla*, *Mentha Piperita*, and Sodium Lauryl Sulphate from Coconut Extract.

SUGGESTED USE: Spray onto surfaces such as cracks, bed frames, below beds, any nearby wood surfaces and baseboards. Make sure you treat the mattress with a light application of Bed Bug Killer. Apply to the tufts, folds, seams of the mattress and the underside of the box spring. Spray any other furniture in the room, including cracks and crevices in wooden furniture. Re-apply in 2 weeks and repeat 2-3 times.



Convenient Travel Pack protects you and your family when you travel! TSA approved sizes!

1888815	24 oz. RTU	(2 lbs.)	\$20.50
1888817	1 Gallon Spray RTU	(10 lbs.)	\$81.00
1888819	3 oz. Travel Size (4-Pack)	(2 lbs.)	\$36.99

ClimbUp®



Do You Worry About Bed bugs? This Device Can Help.

TARGET: Residential or commercial spaces where furniture and bedding should be monitored for bed bugs.



DESCRIPTION: ClimbUp is a tough, plastic, re-usable double well cup that is placed under the legs of beds (or other furniture that you rest or sleep on) to intercept any bugs entering or leaving the bed. ClimbUp contains no chemicals or pesticides so it will not outright kill the insects. They will eventually dehydrate and die in the trap. ClimbUp should be seen as a monitoring device and not an insect control measure.

SUGGESTED USE: Place ClimbUp devices under each leg of the furniture where people sleep or rest. Monitor frequently to determine presence of insects. Clean and re-lubricate as needed.

1250101	ClimbUp Original 4-pack	(1 lb.)	\$13.50
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