

ARBICO *organics*™

Providing Organic Solutions For Growers Since 1979

Fall / Winter Catalog 2018

Natural Products For Your Organic Garden, Farm and Livestock!



- Beneficial Insects
- Beneficial Nematodes
- Biorational Insecticides
- Crop & Frost Protection
- Disease & Pathogen Control
- Fly Control
- Pest Insect Traps & Lures
- Predatory Mites & Parasites
- Seeds & Seed Starting
- Weed Control & Lawn Care





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GENERALISTS

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, whiteflies and more.

DESCRIPTION: Green lacewings 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	\$16.00
1110011	≈5,000 Eggs	\$27.00
1110016	≈10,000 Eggs	\$37.80
1110100	≈5,000 Eggs on Cards	\$28.50
1110102	≈10,000 Eggs on Cards	\$45.00
1110105	≈25,000 Eggs on Cards	\$90.00
1110005	Larval Frames ≈400 Larvae	\$25.00**
1110006	≈100 Adults	\$44.00**
1110007	≈500 Adults	\$170.00**
1110010	≈1,000 Larvae in Bottle	\$24.00**

Green Lacewing Eggs Programs:

1110002	≈1,000 Eggs/week for min. 3 shipments (Price Per Shipment)	\$15.60
1110003	≈5,000 Eggs/week for min. 3 shipments (Price Per Shipment)	\$24.30
1110023	≈10,000 Eggs/week for min. 3 shipments (Price Per Shipment)	\$33.75

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	Farms
≈1-3/sq. ft., 100/Tree	≈200-500/Acre

Larvae & Adults Require OVERNIGHT Shipping

*FREE SHIPPING in the contiguous 48 United States. Quantities of 1,000-25,000 eggs 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

Ladybugs - *Hippodamia convergens*

Ladybugs Consume A Vast Quantity Of Soft-Bodied Insects.



TARGET: Aphids, chinch bugs, asparagus beetle larvae, thrips, alfalfa weevil larvae, bean thrips, grape root worm, Colorado potato beetle larvae, whiteflies, mites and 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: 62-88°F **Relative Humidity:** Minimum 40%

1112525	≈1,500 - Starter Size	≈800 sq. ft.	\$12.95
1112511	≈4,500 - Half Pint	≈2,500 sq. ft.	\$22.50
1112512	≈9,000 - Pint	≈5,000 sq. ft.	\$29.00
1112513	≈18,000 - Quart	≈10,000 sq. ft.	\$43.00
1112505	≈35,000 - 1/2 Gallon	≈1/2 acre	\$71.00
1112506	≈70,000 - 1 Gallon	≈1 acre	\$125.00

Overnight Shipping Required

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, whiteflies, 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.

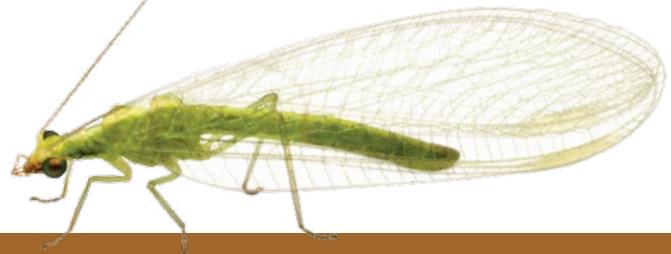
SUGGESTED USE (Depending upon level of infestation): Sold as adults. For maintenance, release 1 to 2 *Orius* per plant in greenhouses or 1 to 4 *Orius* per plant in hot spot areas outdoors. When treating a serious whitefly, aphid, thrips or other pest infestation, we recommend releasing up to 500 *Orius* 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: 64-82°F **Relative Humidity:** Moderate ≈60%

1117001	≈500 Count	\$53.00
1117003	≈1,000 Count	\$88.00
1117004	≈2,000 Count	\$154.00

Overnight Shipping Required

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

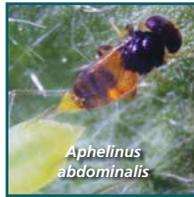


SPECIALISTS - APHID CONTROL

Aphid Parasite - *Aphelinus abdominalis*

These Ravenous Predators Will Eat & Parasitize Aphid Nymphs!

TARGET: Aphids, including potato (*Macrosiphum euphorbiae*), foxglove (*Aulacorthum solani*), green peach (*Myzus persicae*), California laurel (*Euthoracaphis umbellulariae*), cotton (*Aphis gossypii*), melon (*Aphis gossypii*), bird cherry-oat (*Rhopalosiphum padi*), cereal (*Sitobion avenae*), and alfalfa aphids (*Acyrtosiphon pisum*).



DESCRIPTION: Not great fliers, these parasitic wasps nevertheless can hunt down and destroy large numbers of aphids. These predators will not only lay their eggs in aphid nymphs, they will eat those that they don't parasitize. This secondary method of killing has a powerful effect on the aphid population and provides females with additional protein to develop more eggs. As the larvae matures inside the nymph, they feed on it, turning it into a mummy. The parasites are shipped in this stage; simply place them where the infestation is. The mature adult will chew a hole in the back of the mummy and emerge. This species is better able to handle high temperatures than the *Aphidius* species.

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: 70-77°F **Relative Humidity:** Low-High ≈60-80%

1101101 ≈250 Mummies **\$80.00**

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: These tiny (1/8") parasitic wasps specifically target aphids to provide food and a place to oviposit. The adults respond to alarm signals from plants to locate the aphids and, once there, they feast on the honeydew produced by the aphids. The females will then lay their eggs inside aphid nymphs. The larvae will hatch and devour the aphid from inside, turning it into a mummy. The parasites are shipped to you in this stage; simply place them where the infestation is. Once mature, the adult wasp will chew its way out of the mummy and begin hunting aphids.



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: 70-77°F **Relative Humidity:** High ≈80%

1101301 ≈1,000 Mummies **\$54.00**
1101303 ≈5,000 Mummies **\$189.00**
1101304 ≈10,000 Mummies **\$340.00**

Overnight Shipping Required

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

Aphid Parasite - *Aphidius ervi*

This Non-Stinging Parasitic Wasp Attacks Larger Aphid Species.

Image Citation: Alex Wild



TARGET: Aphids, especially potato (*Macrosiphum euphorbiae*), glasshouse potato (*Aulacorthum solani*), green peach (*Myzus persicae*), foxglove (*Aulacorthum solani*) and pea aphids (*Acyrtosiphon pisum*). Also attacks greenbug/wheat (*Shizaphis graminum*), yellow rose (*Rhodobium orientis*), English grain (*Sitobion avenae*) and other aphids.

DESCRIPTION: These mini-wasps (1/8") are vigorous fliers and will aggressively seek out aphid populations, no matter how small. Once they find the aphids, they feed on the honeydew produced by the aphids and lay their eggs inside the aphid nymphs. As the larvae feed on the nymphs from the inside, the nymph turns into a mummy. The parasites are shipped to you this stage; simply place them where the infestation is. Once mature, the adult wasp will chew its way out of the mummy and begin its own search for aphids.

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 **\$80.00**

Overnight Shipping Required

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

Aphid Predator - *Aphidoletes aphidimyza*

This Aphid Predator Attacks & Feeds On Over 60 Different Species Of Aphids.

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 **\$80.00**
1101003 ≈3,000 Pupae **\$207.00**
1101002 4 x 250 Pupae in Blister Packs **\$60.00**

Overnight Shipping Required

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

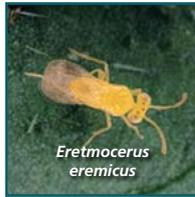
BENEFICIAL INSECTS & MITES

SPECIALISTS - WHITEFLY CONTROL

Whitefly Parasite - *Eretmocerus eremicus*

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

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



DESCRIPTION: The whitefly parasite (parasitoid) is a tiny wasp that host feeds and parasitizes the scale (nymphs) of whiteflies. The time from egg laying to adult emergence is approximately 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 Packs (≈250 Pupae Per Pack) **\$94.95**

Overnight Shipping Required

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

Whitefly Parasite - *Encarsia formosa*

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

TARGET: Greenhouse whiteflies (*Trialeurodes vaporarum*), sweet potato whiteflies (*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 whiteflies. The time from egg laying to adult emergence is approx. 25 days. Can also be used with Green Lacewings.

SUGGESTED USE (Depending upon level of infestation): For prevention: Use 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. Please call to set up your customized weekly program.

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

1132001 ≈1,000 Count **\$32.50**
1132002 ≈3,000 Count **\$46.00**
1132003 ≈5,000 Count **\$60.00**

2nd Day Shipping Required

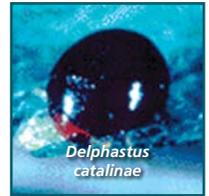
*FREE SHIPPING in the contiguous 48 states. Ships via 2nd Day Only.

Ships only on Monday, Tuesday and Wednesday.

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

Whitefly Parasite - *Delphastus catalinae*

These Tiny Brown Beetles Consume Several Hundred Pests Daily!



TARGET: Aphids, scale, thrips, and especially greenhouse and outdoor sweet potato whiteflies and other soft-bodied insect pests.

DESCRIPTION: Females lay ≈3-4 eggs daily and adults live for approximately one month. Adult beetles capture prey with their mandibles, inject paralyzing venom & 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 be combined with other whitefly parasites.

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

1126001 ≈100 Count **\$47.50**
1126003 ≈200 Count **\$74.95**
1126002 ≈1000 Count **\$162.00**

Overnight Shipping Required

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

BENEFICIAL MITES

Mite Predator - *Neoseiulus (=Amblyseius) californicus*

Good For Areas Where Temperatures Fluctuate Greatly Such As Deserts.

TARGET: Various spider mites, cyclamen mites, broad mites and russet 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 strawberries. Use weekly until infestation subsides.

Temperature: Warm 50-105°F **Relative Humidity:** 40-80%

1151201 ≈1,000 Count **\$35.00**
1151208 ≈2,000 Count **\$43.00**
1151209 ≈5,000 Count **\$65.50**
1151210 ≈10,000 Count **\$106.00**
1151212 ≈25,000 Count **\$125.00**

Overnight Shipping Required

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

BENEFICIAL MITES

Spider Mite Destroyer - *Feltiella acarisuga*

We Recommend This Predator When Spider Mite Infestations Are Widespread & Severe.

TARGET: Two spotted spider mites, carmine spider mites, European red mites; various mites.

DESCRIPTION: The entire life cycle is about 15 days. Adults are about 2 mm long, pinkish-brown, and have long legs. Adults 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 Count **\$144.00**

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: Spider mites, two spotted spider mites; various mites.

DESCRIPTION: An excellent choice for dry, western states. The female mite predator will lay approx. 50 eggs during a lifespan of approx. 13-40 days. Consumption of pests 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: 65-90°F **Relative Humidity:** 40-60%

1151203 ≈1,000 Count **\$38.50**

1156301 ≈5,000 Count **\$80.00**

1156401 ≈10,000 Count **\$142.00**

Overnight Shipping Required

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



Mite Predator - *Neoseiulus (=Amblyseius) fallacis*

An Excellent Mite Predator For Control Of Many Different Types Of Mites.

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

TARGET: Two spotted spider mites, broad mites, cyclamen mites, hemp russet mites; various mites.

DESCRIPTION: This predatory mite effectively suppresses cyclamen mites in strawberry fields, broad mites in greenhouse crops, European red mites and two-spotted spider mites in orchards, spider mites 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 Count	\$39.95
1151402	≈2,000 Count	\$52.00
1151403	≈5,000 Count	\$86.75
1151404	≈10,000 Count	\$152.00

Overnight Shipping Required

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



Mite Predator - *Galendromus occidentalis*

Excellent For Hot & Dry Inland Areas!

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

TARGET: Two spotted spider mites, russet mites, eriophyid mites, prunus rust mites, blister mites, European red mites; various mites.

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 subsides.

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

1151202	≈1,000 Count	\$43.00
1151220	≈10,000 Count	\$160.00
1151221	≈50,000 Count	\$603.00

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 mites (*Polyphagotarsonemus latus*), cyclamen mites (*Phytonemus pallidus*), two-spotted spider mites (*Tetranychus urticae*), red spider mites (*Tetranychus cinnabarinus*), tomato russet mites (*Aculops lysopersici*) and rust mites (*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): For best results, apply as a preventative treatment of mite infestations in vegetable crops, strawberries, raspberries, and fruit trees. Sachets allow for controlled release of mites over 4-6 weeks. Apply at a rate of 1-2 mites per sq. ft. or 1 sachet per plant. Place sachets within plant canopy. Use sachets on sticks at 1 per propagation tray, or where canopy cannot hold sachet on hook. Replace sachets every four weeks for continued control. Can be used with *Phytoseiulus persimilis* and *Stethorus punctillum*.

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

BULK SIZES:

1101323	≈25,000 in 200 Mini Sachets w/Hooks	\$150.00
1101350	≈25,000 in 200 Mini Sachets on Sticks	\$162.00
1101326	≈62,500 in 250 Sachets	\$225.00
1101355	≈125,000 in 1,000 Mini Sachets on Sticks	\$650.00
1101322	≈125,250 in 6 x 328 ft. Strips of Sachets	\$600.00

CONTROLLED RELEASE:

1101327	≈50,000 in 1 Liter Bottle	\$150.00
1101321	≈125,000 in 5 Liter Bag	\$375.00

Overnight Shipping Required

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



Spider mite damage

Mite Predator - *Phytoseiulus persimilis*

The Mite Predator With The Highest Consumption & Dispersal Rate.

Image Citation: Photo by David Janzen. All rights reserved to BioBee Sde Ellyahu Ltd.



TARGET: Two spotted spider mites and various other 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): For prevention on tomatoes and indoor crops, apply 1-3 mites per sq. ft. Increase to 5 or more mites per sq. ft. for moderate infestations. For severe infestations consider using a knockdown prior to release of predatory mites. See online or call for severe infestations or outdoor control.

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

1151204	≈2,000 Count	\$23.00
1151205	≈4,000 Count	\$40.00
1151206	≈6,000 Count	\$54.00
1151207	≈10,000 Count	\$85.00
1151200	≈100,000 Count	\$550.00

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 Predatory Mites When Spider Mite Populations Are Especially High.



TARGET: Two spotted spider mites, European red mites, spruce spider mites, southern red mites; 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 Count	\$79.00
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Overnight Shipping Required

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

SPECIALISTS

Thrips Predator - *Amblyseius cucumeris*

These Beneficial Mites Consume Vast Quantities Of Thrips.

TARGET: Prefers greenhouse and western flower thrips. They will also eat spider mites, russet 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): For best results, apply before onset of thrips infestation. For prevention, use at a rate of 10-20 mites per sq. ft at weekly intervals. Use continuous release sachets at 1 per 3 sq ft. for 3-6 weeks. Spot treat with 10-40 mites per sq. ft. weekly until infestation subsides. Monitor with blue sticky traps or ribbon (see pg. 19).

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

BULK SIZES:

1152204	≈50,000 in Bran/Vermiculite Mix	\$38.50
1152224	≈50,000 in Vermiculite	\$40.00
1152205	≈100,000 in Bran	\$55.00
1152206	≈250,000 in Bran/Vermiculite Mix	\$100.00
1152223	≈250,000 in Vermiculite	\$112.00

CONTROLLED RELEASE:

1152225	≈125,000 in 500 Mini Sachets on Sticks	\$80.00
1152201	≈200,000 in 200 Sachets w/Hooks	\$75.00
1152221	≈200,000 in 400 Sachets w/Hooks	\$65.00
1152222	≈250,000 in 1,000 Sachets w/Hooks	\$120.00
1152226	≈250,000 in 1,000 Mini Sachets on Sticks	\$135.00
1152227	≈500,000 in 2,000 Mini Sachets on Sticks	\$245.00
1152220	≈1,602,000 in 6 x 525 ft. Strips of Sachets	\$600.00

Overnight Shipping Required

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

Thrips & Whitefly Predator - *Amblyseius swirskii*

For Use On A Variety Of Pest Mites, Thrips & Whiteflies.

TARGET: Western flower thrips, onion thrips, broad mites, hemp russet mites, glasshouse whiteflies, tobacco whiteflies or silverleaf whiteflies.

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 temperatures are no lower than 60°F. Apply at a rate of 10 mites per sq. ft every other week as needed, or apply continuous release sachets every 2-4 weeks. Use 1 sachet per plant, or 1 per 3 plants if canopy is touching. Use sachets on sticks during propagation or where canopy cannot support hooks. Not recommended for use on infestations in tomato crops.

Temperature: Moderate 77-85°F

Relative Humidity: 70%

BULK SIZES:

1101312	≈25,000 in 1 Liter Tube	\$62.00
1101319	≈50,000 in 1 Liter Tube	\$105.00
1101311	≈125,000 in 5 Liter Bag	\$235.00
1101309	≈200,000 Bulk	\$375.00

CONTROLLED RELEASE:

1101317	≈50,000 in 200 Mini Sachets w/Hooks	\$120.00
1101318	≈62,500 in 500 Mini Sachets on Sticks	\$220.00
1101314	≈125,250 in 6 x 328 ft. Strips of Sachets	\$450.00
1101316	≈125,000 in 1,000 Mini Sachets w/Hooks	\$330.00
1101315	≈250,000 in 1,000 Mini Sachets w/Hooks	\$467.00

Overnight Shipping Required

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



Thrips insect pest

If You're Unsure Which Beneficial Insect Or Predator Is Right For Your Conditions, Call One Of Our Specialists At 1-800-827-2847.

SPECIALISTS

Mealybug Parasitoid - *Anagyrus pseudococci*

Stop Destructive Mealybugs With This Beneficial Parasitoid.

Image Citation: Crerob Hermosillo, Mexico

TARGET: Citrus mealybugs, grape mealybugs, vine mealybugs, cypress mealybugs, obscure mealybugs, longtail mealybugs 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 per 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 & reproduction.

Temperature: Moderate 65-93°F **Relative Humidity:** Moderate ≈40-60%

1132060	≈100 Mummies	\$32.00
1132061	≈200 Mummies	\$60.00
1132062	≈500 Mummies	\$137.50

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 scales, citrus red scales, oleander scales, San Jose scales, ivy scales, yellow scales 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 Adults	\$27.00
1122002	≈25,000 Adults	\$57.00
1122003	≈50,000 Adults	\$109.00

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, whiteflies, and other soft-bodied insect pests.

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 around stems, the underside of leaves, greenhouse structures and other sheltered areas. Shipped as adults and most effective in severe infestations.

SUGGESTED USE (Depending upon level of infestation): 250-1,000/acre every 2 weeks, 2-3 releases. Use indoors and outdoors. Weekly release programs available. Please call.

Temperature: Low-High 64-81°F **Relative Humidity:** Moderate ≈70-80%

1114702	≈100 Adults	\$49.95
1114703	≈250 Adults	\$97.00
1114704	≈500 Adults	\$194.50
1114705	≈1,000 Adults	\$330.55
1114710	≈5,000 Adults	\$990.00

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. Apply approx. 1-5 predators per sq. ft. For high infestation, increase application rate and consider pairing with another suitable predator or parasite like *S. scimitus*, beneficial nematodes, or specific mite predators.

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

1101329	≈100 Adults	\$17.00
1101330	≈500 Adults	\$54.00
1101331	≈1000 Adults	\$87.00
1101332	≈3,000 Adults	\$170.00

Overnight Shipping Required

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

SPECIALISTS

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. Their 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 73-86°F **Relative Humidity:** Low-High ≈20-90%

1121501	≈100 Count	\$85.50
1121502	≈250 Count	\$160.00

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 60-74°F **Soil Conditions:** Moist soil. Not too damp.

1154000	≈12,500 Count	\$19.00
1154002	≈25,000 Count	\$30.00
1154005	≈50,000 (2 x 25,000)	\$50.00
1154010	≈125,000 in 5 Liter Bag	\$130.00

Overnight Shipping Required

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

Moth Egg Parasites - *Trichogramma spp.*

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 spp.* 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 tab has been inoculated with ≈2,400 eggs per tab.

SUGGESTED USE (Depending upon level of infestation): Use ≈1 tab/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 tabs 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 brassicae</i> - European cabbage butterfly, cutworm, corn earworm, European corn borer, cabbage looper, armyworm		
1131910	3 Tabs	\$7.00
1131903	6 Tabs	\$12.00
1131911	1 Card (30 Tabs)	\$25.00
1131912	5-9 Cards	\$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 Tabs	\$7.00
1129003	6 Tabs	\$12.00
1129010	1 Card (30 Tabs)	\$25.00
1129025	5-9 Cards	\$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 Tabs	\$7.00
1130003	6 Tabs	\$12.00
1130030	1 Card (30 Tabs)	\$25.00
1130035	5-9 Cards	\$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



Natupol Bumblebee Hives

Put These Portable Hives Where You Need Them Most To Greatly Improve Pollination.

TARGET: For use indoors in greenhouses and hoophouses and outdoors in fields, gardens & orchards.

DESCRIPTION: By introducing gentle bumblebees to your crops, you can improve fruit quality, increase productivity, save labor costs by reducing hand pollination and provide pollination that is independent of weather conditions. These hives house the *Bombus impatiens* species of bumblebees and contain a colony with a queen, workers and brood (pupae, eggs and larvae). The Natupol Excel and Natupol Excel Startup hives replace the now-discontinued Natupol Class-A, Class-B & Class-C hives. These new hives have carefully considered innovations in design that keep the bees comfortable inside their hives and make it easier for them to enter and exit. Both have been also developed for use under artificial light and in warmer conditions to serve crops with large numbers of flowers per sq. ft.

SUGGESTED USE:

Natupol Excel: Replaces the Natupol Class-A & Class-C hives. An ideal choice greenhouses that operate consistently; especially so if they are at the beginning of the planting cycle before full bloom. Also excellent for consistently growing hydroponic operations. This hive may take longer to reach its maximum efficiency level than the Natupol Excel Startup, but will retain optimum performance over the course of time.

Covers 1,000-15,000 sq. ft. and last for about 9 weeks.

Natupol Excel Startup: Replaces Natupol Class-B hives. This larger size colony will provide intense pollination from day 1 and reach maximum efficiency rapidly, great for those crops that need heavy pollination in a short period of time. A wonderful choice for greenhouses that are near to or in full bloom and need thorough pollination immediately.

Covers 1,000-15,000 sq. ft. and last for about 7-8 weeks.

1530111	Natupol Excel	\$230.00
1530112	Natupol Excel Startup	\$165.00

Overnight Shipping Required

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

Shipments to California require that a permit application be filled out & sent to the California Department of Food & Agriculture. Please call if more information is needed.



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	\$7.00
1231318	Honey Bee Magnet - 10 Lures	\$27.97



SMALL HIVE BEETLE CONTROL

Heterorhabditis indica

Protect Your Hives From Small Hive Beetle.

Image Citation: Jessica Louque, Smithers Viscint

TARGET: Small Hive Beetles (*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 infected area. Irrigate after treatment. Use 5 million for every 10 hives.

1220200	<i>Heterorhabditis indica</i> - 5 million	\$27.00
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2nd Day Shipping Required

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



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 their is a suitable host, the Beneficial Nematodes will continue to parasitize.



Easily Apply Beneficial Nematodes With The Chameleon Adaptable Hose End Sprayer.

Chameleon Adaptable Hose End Sprayer

Get Perfect Application With This Highly Adjustable Sprayer.

DESCRIPTION: Multipurpose sprayer that works great with Beneficial Nematodes (see pages 14-15). This affordable, easy-to-use, light-weight multi-purpose sprayer is perfect for applying your natural biologicals, fertilizers, amendments, insecticides, herbicides & fungicides.

SUGGESTED USE: Any garden products requiring dilution and application with a sprayer, including applying Beneficial Nematodes.



1800006 Chameleon Adaptable Hose End Sprayer - 1 Sprayer **\$14.75**

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 (**See Chameleon Sprayer below**), backpack sprayer, pump sprayer or watering can. Lightly water again after application.
3. Keep area moist for at least 2 weeks.

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 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.



BENEFICIAL NEMATODES

NemaSeek™ *Heterohabditis bacteriophora* (Hb) Beneficial Nematodes ▲

NemaSeek actively seeks out larval pests and is most effective against sedentary pests, such as queen ants, asparagus beetles, bagworms, banana moths, banana weevils, berry root weevils, bill bugs, borers, carrot weevils, chafers, fleas, grubs and more!



NemAttack™ *Steinernema riobrave* (Sr) Beneficial Nematodes ★

These nematodes are known to wait for passing pests. NemAttack *S. riobrave* is most effective against grubs of various beetles, citrus weevil and other weevil grubs, small hive beetle and more.



NemAttack™ *Steinernema feltiae* (Sf) Beneficial Nematodes ■

These nematodes are known to wait for passing pests, such as cabbage maggot, humpbacked flies, onion maggots, pill worm, raspberry crown borer, root maggots, sclarids, shore flies, thrips and more!



NemaSeek™ *Steinernema krausei* (Sk) Beneficial Nematodes ◆

NemaSeek actively seek out larval pests in the soil. *S. krausei* has been shown to be effective at cooler soil temperatures (37-86°F) against the developing stage of weevils (especially black vine weevils) and sawflies.



NemAttack™ *Steinernema carpocapse* (Sc) Beneficial Nematodes ●

These nematodes are known to wait for passing pests. NemAttack is most effective against mobile pests such as fleas, cutworm, fly larvae, termites and more!



NemaSeek™ *Heterohabditis indica* (Hi) Beneficial Nematodes ◆

NemaSeek actively seek out larval pests and has been shown to be effective against small hive beetle, fungus gnats, root weevil, western flower thrips and select grubs.



NEMATODE VARIETY GUIDE – Choose Variety By Pest

Pest	Variety	Pest	Variety	Pest	Variety	Pest	Variety
Ants - Queen	▲	Colorado Potato Beetles	▲	Grubs	▲ ◆	Roaches-American, Asian, German	●
Armyworm	● ★	Corn Earworm	● ■ ★	Hive Beetles	★ ◆	Root Maggots	■
Artichoke Plume Moth	●	Corn Rootworm	▲	Humpbacked Flies	■	Root Weevils	▲ ◆
Asparagus Beetles	▲	Cotton Bollworm	●	Indian Meal Moth	★	Scarabs	▲
Bagworm	▲	Cranberry Girdler	●	Iris Borers	▲	Sclarids	■
Banana Moth	▲	Cranberry Root Weevils	▲	Japanese Beetles	▲ ★	Shore Flies	■
Banana Weevils	▲	Cucumber Beetles	● ■ ▲	Large Pine Weevils	●	Sugarcane Stalk Borers	▲
Beet Armyworm	● ■	Cutworm	●	Leafminers	● ■	Strawberry Root Weevils	● ★
Berry Root Weevils	▲	Diaprepes Root Weevils	★	May/June Beetles	▲ ★	Subterranean Termites	★
Bill Bug	▲	Fall Armyworm	●	Mint Flea Beetles	●	Sweet Potato Weevils	■ ▲
Black Cutworm	● ■ ★	Flea Beetles	▲	Mint Root Borers	●	Thrips	■
Black Vine Weevils	● ▲ ★ ◆	Fleas - Larvae, Pupae	●	Mole Crickets	● ★	Ticks	■ ▲
Bluegrass Weevils	●	Fleas - Adult	▲	Navel Orangeworm	●	Tobacco Budworm	●
Cabbage Maggot	■	Fly Larvae	●	Onion Maggots	■	Tobacco Cutworm	■
Carrot Weevils	▲	Fruit Flies	● ■	Pill Worm	■	Vine Borers	▲
Caterpillars	●	Fungus Gnats	■ ▲ ◆	Pink Bollworm	★	Webworm	●
Chafer - European, masked	▲ ★	Gall Midges	▲	Plum Curculio	★	Western Flower Thrips	■ ◆
Citrus Root Weevils	▲ ★	Grape Root Borers	▲	Raspberry Crown Borers	■	Wireworm	●
Codling Moth	● ■	Greater Wax Moth	★	Red Flower Beetles	★	Wood Borers	●



Beneficial Nematodes

- ▲ = NemaSeek™ *Heterorhabditis bacteriophora* (Hb)
- = NemaAttack™ *Steinernema feltiae* (Sf)
- = NemaAttack™ *Steinernema carpocapsae* (Sc)

- ★ = NemaAttack™ *Steinernema riobrave* (Sr)
- ◆ = NemaSeek™ *Steinernema kraussei* (Sk)
- ◐ = NemaSeek™ *Heterorhabditis indica* (Hi)

SINGLE SPECIES		
SKU	Size	Price
▲ NemaSeek <i>Heterorhabditis bacteriophora</i>		
1220300	≈5 million	\$36.00
1220301	≈10 million	\$42.95
1220302	≈50 million	\$72.00
1221703	≈250 million	\$198.00
1221706	≈500 million	\$270.00
■ NemaAttack <i>Steinernema feltiae</i>		
1220309	≈5 million	\$36.00
1220310	≈10 million	\$42.95
1220311	≈50 million	\$72.00
1221701	≈250 million	\$198.00
1221704	≈500 million	\$270.00
● NemaAttack <i>Steinernema carpocapsae</i>		
1220319	≈5 million	\$36.00
1220320	≈10 million	\$42.95
1220321	≈50 million	\$72.00
1221702	≈250 million	\$198.00
1221705	≈500 million	\$270.00
★ NemaAttack <i>Steinernema riobrave</i>		
1220410	≈5 million	\$36.00
1220411	≈10 million	\$42.95
1220412	≈50 million	\$72.00
1220413	≈250 million	\$198.00
1220414	≈500 million	\$270.00
◆ NemaSeek <i>Steinernema kraussei</i>		
1220420	≈5 million	\$36.00
1220421	≈10 million	\$42.95
1220422	≈50 million	\$72.00
1220423	≈250 million	\$198.00
1220424	≈500 million	\$270.00
◐ NemaSeek <i>Heterorhabditis indica</i>		
1220200	≈5 million	\$27.00

COMBO PACKS		
SKU	Size	Price
▲● NemaSeek Hb & NemaAttack Sc		
1220331	≈10 mil. per species	\$60.00
1220332	≈50 mil. per species	\$125.00
1221699	≈250 mil. per species	\$340.00
1220335	≈500 mil. per species	\$655.00
▲■ NemaSeek Hb & NemaAttack Sf		
1220333	≈10 mil. per species	\$60.00
1220334	≈50 mil. per species	\$125.00
1221700	≈250 mil. per species	\$340.00
1220336	≈500 mil. per species	\$655.00
■● NemaAttack Sf & NemaAttack Sc		
1220340	≈10 mil. per species	\$60.00
1220341	≈50 mil. per species	\$125.00
1220342	≈250 mil. per species	\$340.00
1220343	≈500 mil. per species	\$655.00

TRIPLE THREAT COMBO		
SKU	Size	Price
▲■● NemaSeek Hb, NemaAttack Sf & NemaAttack Sc		
1220328	≈5 mil. per species	\$61.00
1220330	≈10 mil. per species	\$80.00
1220329	≈50 mil. per species	\$142.00
1220327	≈250 mil. per species	\$405.00
1220326	≈500 mil. per species	\$700.00

SIZE & COVERAGE CHART

QUANTITY	COVERAGE
≈5 mil. nematodes	Treats ≈1,600 sq. ft.
≈10 mil. nematodes	Treats ≈3,200 sq. ft.
≈50 mil. nematodes	Treats ≈1 acre
≈250 mil. nematodes	Treats ≈5 acres
≈500 mil. nematodes	Treats ≈10 acres



- ▲ = NemaSeek™ *Heterorhabditis bacteriophora* (Hb)
- = NemaAttack™ *Steinernema feltiae* (Sf)
- = NemaAttack™ *Steinernema carpocapsae* (Sc)

OMRI Listed Beneficial Nematodes



OMRI LISTED SINGLE SPECIES		
SKU	Size	Price
▲ NemaSeek Pro Hb Beneficial Nematodes		
4004010	≈10 million	\$52.00
4004050	≈50 million	\$90.00
4004250	≈250 million	\$250.00
4004500	≈500 million	\$325.00
■ NemaAttack Pro Sf Beneficial Nematodes		
4006010	≈10 million	\$52.00
4006050	≈50 million	\$90.00
4006250	≈250 million	\$250.00
4006550	≈500 million	\$325.00

OMRI LISTED SINGLE SPECIES		
SKU	Size	Price
● NemaAttack Pro Sc Beneficial Nematodes		
4005010	≈10 million	\$52.00
4005050	≈50 million	\$90.00
4005250	≈250 million	\$250.00
4005500	≈500 million	\$325.00

TRIPLE COMBO		
SKU	Size	Price
▲■● NemaSeek Pro Hb Beneficial Nematodes, NemaAttack Pro Sf Beneficial Nematodes & NemaAttack Pro Sc Beneficial Nematodes		
4007010	≈10 mil. per species	\$125.00
4007050	≈50 mil. per species	\$225.00
4007250	≈250 mil. per species	\$630.00
4007500	≈500 mil. per species	\$880.00

*Free shipping in the contiguous 48 United States. 2nd day shipping required for the 5 million - 50 million sizes. Expedited shipping available for an additional fee. The 250 million & 500 million sizes require next day shipping during summer months, 2-day shipping otherwise. Orders ship Monday - Thursday; excluding holidays.
Cannot be shipped to the following states: HI, AK, PR, VI, GU, AS, PW

PEST INSECT TRAPS



Sticky Traps

Monitor & Trap For Best Pest Identification!

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: Whiteflies, 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 approximately every 7 ft. at the end of each row or per tree. Use more for trapping.

1254001	Package of 5 Yellow Traps	\$4.49
1254101	Package of 5 Blue Traps	\$5.50

Stiky™ Strips Yellow Insect Traps

These Basic Traps Come With A Handy Wire Hanger.

TARGET: Whiteflies, aphids, fungus gnats, leafminers, thrips, and more.

DESCRIPTION: This non-gridded yellow sticky trap is versatile enough to use virtually anywhere you are growing. Many insects find this particular yellow hue irresistible and, with glue on both sides, these traps will grab them coming and going. The adhesive is UV resistant, which keeps it from drying out.

SUGGESTED USE: For use in homes, gardens, greenhouses, nurseries and fields. Included wire hangers can also be used as plant stakes.

1254301	Stiky Strips Yellow Sticky Traps - 9 Pack	\$5.49
1254302	Stiky Strips Yellow Sticky Traps - (5) 9 Packs	\$25.00
1254303	Stiky Strips Yellow Sticky Traps - (10) 9 Packs	\$45.00



ARBICO Organics™ Yellow Insect Traps

Monitoring + Trapping = Effective Pest Control

TARGET: Use against aphids, bean beetles, California laurel aphids, flea beetles, fungus gnats, greenhouse whiteflies, leafminers, psyllids, shore flies, silverleaf whiteflies, sweet potato whiteflies and more.

DESCRIPTION: ARBICO Organics Yellow Insect Traps are 5" x 7" gridded, 2-sided adhesive traps for a wide range of crawling and flying insect pests. Insects are drawn in by the bright color and are caught on the glue. Once they are trapped, the gridded surface makes it easy to count just how many have landed. Having the insects immobilized on the trap also makes it easy to identify them. There is a very low risk to beneficials, but some may become caught by accident.

SUGGESTED USE: For use indoors and outdoors to trap and monitor insect pests. Traps may be hung virtually anywhere, placed on the ground or inserted into included stake. If hung, traps should be slightly above the plant canopy.

- For trapping in the greenhouse or garden, use roughly one trap per 25-50 sq. ft.
- For monitoring, use roughly one trap per acre.

1254501	ARBICO Organics Yellow Insect Traps - 5 Pack	\$4.25
1254502	ARBICO Organics Yellow Insect Traps - 10 Pack	\$8.00
1254503	ARBICO Organics Yellow Insect Traps - 25 Pack	\$18.75
1254504	ARBICO Organics Yellow Insect Traps - 50 Pack	\$35.00
1254510	ARBICO Organics Yellow Insect Traps - 100 Pack	\$65.00



BioCare® Gnat Stix

An Effective Treatment For A Variety Of Small Pests Infesting Indoor 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	\$6.65
1280502	Gnat Stix - 12 Per Pack - Pack of 2	\$11.50
1280503	Gnat Stix - 12 Per Pack - Pack of 4	\$20.50



Pest Wizard Yellow Sticky Traps

Large Or Small – We’ve Got You Covered With These Popular Sticky Traps!

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 traps are clearly gridded on both sides for easy monitoring. Use the large (5 1/2" x 8") size when you have a greater area to cover and the mini (3 3/4" x 5") for those hard-to-control nooks and crannies. Traps can be used alone or with an added attractant. They are especially effective when used with a pheromone lure to target specific pests. 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 Traps - 5 Pack	\$4.49
1254206	Mini Yellow Sticky Traps - 5 Pack - Bundle of 3	\$12.00
1254207	Mini Yellow Sticky Traps - 5 Pack - Bundle of 5	\$18.99
1254255	Large Yellow Sticky Traps - 4 Pack	\$8.99



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	3.95
1254321	Stiky Plant Stakes - 10 pack - Bundle of 3	10.25
1254322	Stiky Plant Stakes - 10 pack - Bundle of 5	14.75



Pest Wizard Green Sticky Traps



This Green Is Especially Attractive To Aphids, Thrips & Hoppers On Beans!

TARGET: Aphids, leafhoppers, thrips (including Western Flower Thrips), beetles, grasshoppers and others.

DESCRIPTION: This particular shade of green is an especially effective attractant for aphids, thrips and hoppers on peas, beans and citrus. Some beetles and grasshoppers will also be drawn to these traps. Each 3" x 5" trap has a 1" grid pattern printed on both sides. The MessyLess™ adhesive on these traps will grip insects firmly but will not stick to your hands and can be washed off with simple soap and water. These durable traps can stand up to the weather outside and are equally effective inside homes or greenhouses. Package contains four (4) 3" x 5" traps, 4 hangers and instructions.

SUGGESTED USE: Hang trap about 1 ft. (31 cm) above or to the side of the target plants. Can be used in combination with other kits and lures (including essential oil attractants).

1254250	Green Sticky Traps, 4 Pack	\$6.99
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Pest Wizard Assorted Sticky Traps

Try This Assortment To Find The Best Sticky Trap For You!

TARGET: Many insect species, including aphids, whiteflies, fruit flies, thrips, hoppers, beetles, psyllids and sharpshooters.

DESCRIPTION: This assortment of UV and weather-resistant rectangular sticky traps offers a variety of sizes and colors to address almost any common garden pest problem or area. This selection contains one each of the Large Yellow (5 1/2" x 8"), medium-sized (3.5" x 8") Blue/Yellow, smallish Mini Yellow (3.25" x 5") and small (3" x 5") Green Traps. These traps can be used alone or with an added attractant (such as an essential oil) or lure. They are especially effective when used with a pheromone lure to target specific pests. Each unique color has been shown to attract specific insects, with some insects being very particular color-wise and others liking all the colors. Each gridded trap is coated with Messyless Adhesive™, which reacts with light in a very specific way to increase your capture rate and to keep insects firmly caught.

SUGGESTED USE: Can be used indoors or outdoors. Hang trap about 1 ft. (31 cm.) above or to the side of host plants. When trap is full of insects and/or debris, dispose in household waste. Trap is biodegradable.

1254230	Assorted Sticky Traps - 4 Pack	\$7.99
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Olson Garden Guard Yellow Sticky™ Ribbon

This Ribbon Is Just Right For Encompassing Small Gardens.

TARGET: Whiteflies, aphids, beetles, leafhoppers, thrips and most flying insects.

DESCRIPTION: Made for trapping and monitoring, Olson Garden Guard provides another weapon in the sticky trap war on insect pests. Pre-coated with Sticky Stuff adhesive, this narrow (2" wide) and long (100 ft.) roll is ideal as a perimeter barrier; use two levels of ribbon to form a formidable fence of stickiness. Comes packaged in a heavy duty plastic flange for easy dispensing.

SUGGESTED USE: Drive some stakes (not included) into the ground and wrap the ribbon around them and loop from one stake to another. To create a "fence" around your garden, place one row of ribbon at 1 ft. off the ground and another 2 ft. higher. Adhesive can be removed with vegetable oil, soap and water, and we recommend using vinyl gloves while handling ribbon for additional ease in cleanup.



1259605 Garden Guard Yellow Sticky Ribbon - 2" x 100 ft. (1 lb.) **\$14.25**

Tanglefoot® Tangle-Trap® Sticky Coating

Create New Or Re-Use Old Traps To Control & Monitor Pest Insects.

TARGET: Ants, flies, beetles and other insects.

DESCRIPTION: This OMRI listed, versatile brush-on adhesive is ready-to-use to control and monitor pest insects. It can be used to re-coat old traps for continued use or to coat new traps. Apply to commercially made traps or create your own from almost any non-porous material. This clear and odorless product will not interfere with any color attractants or lures you may choose to use.

SUGGESTED USE: For ease of use, use at temperatures above 60°F. Apply a thin (1/16" or 1.6 mm) coating to trap surface. Tie up your trap or attach to a stake and place in desired location in your garden, greenhouse, yard, orchard or field. Suspending traps in the air will help to avoid accidental contact with children or pets.

1266020 Sticky Coating - 8 oz. Brush-On Can **\$10.79**
1266025 Sticky Coating - Case of 8 oz. Cans/12 Ct. **\$105.50**
 Cannot be shipped to the following states: AK, HI, PR



Yellow Sticky Trap Ribbon

Positively Identify Your Pests!

TARGET: Whiteflies, 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: The yellow ribbon trap can be used in a greenhouse, placing it close to the upper vents where it will trap incoming insects. It can also be set around the perimeter of a field to trap migrating insects or in the rows between plants. Recommended for foilage crops, grapes, leaf crops or nurseries as well as greenhouses.



1253201 Yellow Sticky Trap Ribbon - 6" wide x 100' long **\$29.50**
1253202 Yellow Sticky Trap Ribbon - (2 ea.) 6" wide x 100' long **\$57.50**
1253203 Yellow Sticky Trap Ribbon - (3 ea.) 6" wide x 100' long **\$80.25**

Yellow Sticky™ Tape

Longer Length Tape To Cover Even More Area.

TARGET: Whiteflies, aphids, leafhopper 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 Yellow Sticky Tape - 2" wide x 530' long **\$44.00**
1259611 Yellow Sticky Tape - 6" wide x 530' long **\$90.00**
1259612 Yellow Sticky Tape - 10" wide x 530' long **\$125.00**
1259613 Yellow Sticky Tape - 12" wide x 530' long **\$175.00**

*Larger quantities available.

To Shop All Pest Insect Traps, Visit arbico-organics.com

Blue Sticky Strips

Use Blue For Monitoring & Trapping A Wide Range Of Thrips Species!

TARGET: Male and female western flower thrips as well as other species of *Frankliniella*.

DESCRIPTION: Thrips find this 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	\$9.00
1254402	Blue Sticky Traps - 10 Pack (Bundle of 5)	\$43.00



Blue Ribbon Sticky Trap

Thrips & Leafminers Love This Pretty Shade Of Blue!

TARGET: Thrips (*Thysanoptera*), including Western Flower Thrips (*Frankliniella occidentalis*) and Leafminers (*Multi spp.*)

DESCRIPTION: This weather-resistant blue ribbon is 100' L x 6.25" W and made of durable 3-mil plastic. It is coated with a strong adhesive on both sides to catch the pests coming or going. Thrips and leafminers are instinctively drawn to the color of this ribbon, other insects (specifically beneficials) are less interested. Nevertheless, there will be a minimal number of unintended captures.

SUGGESTED USE: For use indoors or outdoors. For best results, use before infestation occurs. Place ribbon just above plant canopy, along and in between crop rows and/or around perimeter of growing area. In greenhouses, place close to upper vents to trap incoming insects. Replace every 6 weeks or when surface is covered with insects and debris.

1254450	Blue Ribbon Sticky Trap - 100' L x 6" W	\$30.00
1254455	Blue Ribbon Sticky Trap - 100' L x 6" W - Case of 20	\$370.00



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 whiteflies, hoppers, beetles, fruit flies, psyllids and more!

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	\$8.99
1254202	Blue & Yellow Card Trap - 10 Pack	\$16.00



Pest Wizard Western Flower Thrips Trap Kit

Thrips Will Feed On Over 500 Different Plant Species – Which Probably Includes Yours!

TARGET: The lure is specifically designed to attract Western Flower Thrips (*Frankliniella occidentalis*). The blue/yellow sticky card may attract other pest insects as well.

DESCRIPTION: You should be vigilant against the very destructive Western Flower Thrip no matter what you're growing, but especially if you're growing greenhouse floricultural crops. Early monitoring and detection is important to prevent it from establishing. This kit is your first line of defense in monitoring and trapping this pest. The lure is effective for 60 days. If the trap becomes covered with insects or other debris before that time, remove the lure and attach it to a fresh trap.

SUGGESTED USE: For use in outdoor areas and inside greenhouses. Place traps close to individual plants or row crops. Put traps where thrips damage is or has been in the past.

1254270	Western Flower Thrips Trap Kit – 2 Traps/2 Lures	\$8.99
1254271	Western Flower Thrips Replacement Lures – 3 Pack	\$8.99



Include Sf Beneficial Nematodes As Part Of Biological Control Of Thrips Larvae.

CATERPILLAR CONTROL



Moth Egg Parasites - *Trichogramma spp.*

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 spp.* 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 tab has been inoculated with ≈2,400 eggs per tab.

SUGGESTED USE (Depending upon level of infestation): Use ≈1 tab/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 tabs 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 brassicae</i> - European cabbage butterfly, cutworm, corn earworm, European corn borer, cabbage looper, armyworm		
1131910	3 Tabs	\$7.00
1131903	6 Tabs	\$12.00
1131911	1 Card (30 Tabs)	\$25.00
1131912	5-9 Cards	\$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 Tabs	\$7.00
1129003	6 Tabs	\$12.00
1129010	1 Card (30 Tabs)	\$25.00
1129025	5-9 Cards	\$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 Tabs	\$7.00
1130003	6 Tabs	\$12.00
1130030	1 Card (30 Tabs)	\$25.00
1130035	5-9 Cards	\$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

DiPel® Pro DF & DiPel® DF



OMRI listed & WSDA approved *Bacillus thuringiensis v kurstaki (Btk)* to control most Lepidoptera insects.

TARGET: Caterpillars, armyworms, bagworms, budworms, loopers, Gypsy Moth larvae, earworms and webworms.

DESCRIPTION: This dust-free, flowable powder bioinsecticide works quickly; pests will stop feeding within the hour and die in a few hours to 3 days. Use the smaller-sized DiPel PRO DF for ornamentals and small edibles. The larger-sized DiPel DF is meant for agriculture production. People, beneficials, birds, fish and wildlife are not affected by DiPel.

SUGGESTED USE: Can be used indoors and outdoors. Best if used while larvae are actively feeding but before plants are damaged. Small scale applications: Mix 1/2-4 tsp./gal. of water. Or use 1/4-2 lbs./acre. Repeat applications every 3-14 days. Add a spreader-sticker on hard-to-wet crops and to improve spray efficacy in poor weather conditions.



1207005	DiPel Pro DF - 1 lb.	\$24.75
1207004	DiPel DF - 5 lbs.	\$119.50

BONIDE® Thuricide - Liquid Concentrate

Bacillus thuringiensis var. kurstaki

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	BONIDE Thuricide - 8 oz. Concentrate	\$10.97
1201202	BONIDE Thuricide - 16 oz. Concentrate	\$18.00

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



**Attract & Trap Adult Moths
With Pheromone Traps & Lures.
See Website For Details.**

BIOLOGICAL GRUB CONTROL

NemaSeek™ Hb Beneficial Nematodes

Beneficial Nematodes are one of nature's most powerful weapons available for managing Japanese Beetle infestations. Along with parasitizing the beetles in their larval, underground damaging stages, they also parasitize the larval states of other pest grubs, weevils, fleas, leafminers and more. Apply with a watering can, hose end sprayer or backpack sprayer. **See pages 13-15 for more information.**

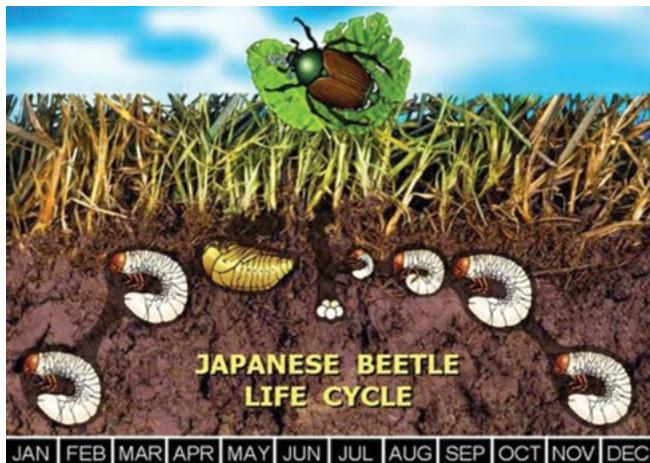


Photo Credit: UNL Entomology Department

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. As grubs decompose they 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 Hb Beneficial Nematodes (see pages 14-15), 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 (see page 39). 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** Milky Spore Powder - 10 oz. - Covers ≈2,500 sq. ft. **\$28.60**
- 1216040** Milky Spore Powder - 40 oz. - Covers ≈1/4 acre **\$83.50**
- 1216050** Milky Spore Powder - 50 lb. Drum* - Covers ≈4.5 acres **CALL**
- 1216052** All-Purpose Dispenser Tube **\$14.50**

*Call for freight quote.

Cannot be shipped to the following states: OR, WA

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: AL, AR, CT, DE, GA, IA, IL, IN, KS, KY, MA, MD, ME, MI, MN, MO, MS, NC, NE, NH, NJ, NY, OH, OK, PA, RI, SC, SD, TN, TX, VA, VT, WI, WV. If you are unsure if Japanese Beetles have invaded your county, please contact your County Extension Agent to find out.

Milky Spore Granular

A New Formulation For Use In A Drop Spreader

TARGET: Japanese beetle grubs.

DESCRIPTION: Contains spores of the bacteria *Bacillus popilliae*, which work specifically against the grub stage of the Japanese beetle. Once Milky Spore is in the soil, grubs will ingest the bacterium as they feed on roots. The spores will then multiply inside the grub, leading to its death in 1-3 weeks. As the grub decomposes it will release the spores in their increased numbers back into the soil. Will not harm people, animals, plants or beneficial insects.



SUGGESTED USE: For best results, apply with a drop spreader (available online) in the spring, summer and fall for 2 consecutive years. This allows the Milky Spore to build up in the soil. After that, the spores will work on their own for several years. After the 6th application, control can last up to 10 years. 1 lb. of material will cover 350 sq. ft. and 20 lbs. bag will cover 7,000 sq. ft.

- 1216070** Milky Spore Granular - 20 lb. Bag **\$48.00**
- 1216071** Milky Spore Granular - 20 lb. Bag, Pallet of 21* **CALL**
- 1216072** Milky Spore Granular - 20 lb. Bag, Pallet of 42* **CALL**

*Call for freight quote.

Cannot be shipped to the following states: OR, WA

NEEM OIL & AZADIRACHTIN

SoluNeem®



Get The Benefits Of Neem Without The Odor In This Water-Soluble Powder!

TARGET: Whiteflies, aphids, sawflies, caterpillars, beetles, scale insects, mole crickets, mushroom flies, leaf miners, mealybugs, psyllids, bugs, flies, beetles, weevils, borers and more.

DESCRIPTION: Made from organic neem seed kernel extract, this is the world's first water-soluble, neem-based bio-insecticide powder. This OMRI listed formula uses a patented process to allow a highly concentrated version of Azadirachtin to readily mix with water. This provides all the benefits of neem products without the odor, stickiness, residue, or need for added solvents. Not harmful to birds, mammals or beneficials.

SUGGESTED USE: Can be applied via soil drench, spray, sub-surface treatments, tree injection and in hydroponics and chemigation systems. Can be applied to soil-less media. Use in a fogger to repel adult flies. Drip applications: Established plants-5 grams/5 gallon container. Spray applications: 1 tsp/1 gal water/1000 sq. ft. to 4 tsp/1 gal water/1000 sq. ft. Apply 2-3 times at 7-20 day intervals, unless otherwise indicated.

1457600	SoluNeem .25 oz. Pouch (5 tsp.)	\$15.95
1457601	SoluNeem .75 oz. Pouch (15 tsp.)	\$35.00
1457610	SoluNeem 6 oz. Bag (8 ct./1.75 oz. Pouches)	275.00

Cannot be shipped to the following states: AL, AK, AR, CT, DE, DC, GA, HI, ID, IL, IN, IA, KS, KY, LA, ME, MD, MA, MI, MN, MS, MO, MT, NC, ND, NE, NH, NJ, NM, NV, NY, OH, OK, PA, PR, RI, SC, SD, TN, TX, UT, VT, VA, WV, WI, WY



Molt-X™



An Excellent Knockdown Spray With Multiple Modes Of Insecticidal Action!

TARGET: Aphids, whiteflies, 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	Molt-X - 1 Pint	\$125.00
1332771	Molt-X - 1 Quart	\$215.50

Shipping Restrictions: Cannot ship via US Mail.

Cannot be shipped to the following states: AK, DC



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, *Botrytis*, 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	\$11.89
1246603	BONIDE Neem Oil Concentrate - 1 Pint	\$17.98

Cannot be shipped to the following states: DC



Debug® ON



Use This Neem Oil Formulation For Broad Spectrum Pest & Disease Control.

TARGET: Aphids, armyworms, fall armyworms, beetles, budworms, caterpillars, fruit flies, fungus gnats, grasshoppers, leaf hoppers, leafminers, mealybugs, rusts, powdery mildew, mites, moths, root knot nematodes, psyllids, scales, sharpshooters, thrips, weevils, whiteflies, wireworms, webworms and many, many more.

DESCRIPTION: This emulsifiable concentrate acts as an antifeed, insect repellent, insecticide, miticide, fungicide and nematicide to control a wide range of pests, parasites and diseases in organic and conventional crops. It gets its power from the biomass extract of neem seed kernels (a 70% active ingredient) and offers all this control in a single application. Debug ON has a Restricted Entry Interval (REI) of 4 hours and you can harvest crops on the same day they are treated.

SUGGESTED USE: Standard application for 1 acre: 56-364 fl. oz. with 100 gallons of water or sufficient amount of water to ensure total foliar coverage.

1450530	Debug ON - 2.5 Gallons	\$105.00
1450540	Debug ON - 2.5 Gallons, Case of 2	\$195.00

Cannot be shipped to the following states: AL, AK, AR, CA, CT, DE, DC, FL, GA, HI, ID, IL, IN, IA, KS, KY, LA, ME, MD, MI, MN, MS, MO, MT, NE, NH, NJ, NM, NY, NC, ND, OH, OK, PA, RI, SC, SD, TN, UT, VT, VA, WV, WI, WY



MINERAL & ESSENTIAL OIL

Organic JMS Stylet-Oil®

Smother Overwintering Insect Pests & Mites With This Food Grade Dormant Oil!

TARGET: Powdery mildew, mites, whiteflies, leafminers 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, whiteflies and leafminers. 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	Organic JMS Stylet-Oil - 1 Gallon	\$36.00
1274108	Organic JMS Stylet-Oil - 2.5 Gallons	\$51.00
1274109	Organic JMS Stylet-Oil - 15 Gallon Drum*	CALL
1274110	Organic JMS Stylet-Oil - 30 Gallon Drum*	CALL
1274111	Organic JMS Stylet-Oil - 275 Gallon Tote*	CALL

*Call for freight quote.

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 gallon drum sizes not available to OR)



SuffOil-X®

OMRI Listed Pre-Emulsified Mineral Oil Suffocates Many Soft-Bodied Insects & Controls Certain Fungal Diseases.

TARGET: Aphids, adelgids, armored scales, mealybugs, cankerworms, *Eriophyid* mites, leafrollers, leafhoppers, leaf tiers, plant bugs, psyllids, soft scales, spider mites, whiteflies, webworms and rust and powdery mildew.

DESCRIPTION: Made with a highly refined pre-emulsified mineral oil, this organic suffocant creates the optimum in coverage with limited risk of plant damage. The pre-emulsified process used creates a lighter oil that dries faster, will not cause phytotoxicity, burn or undue stress, leaves no toxic residue on plants and dilutes easily with water.

SUGGESTED USE: Can be used with a wide variety of crops indoors or outdoors. Do not apply through any type of irrigation system (chemigation), during periods of drought, or when plants exhibit moisture stress. Apply when oil will dry and evaporate in 1-2 hours and when relative humidity is less than 90%. Don't spray in high wind or temps over 95°F. Application rates are generally 1-2 gallons of SuffOil-X per 100 gallons of water or 20-500 gallons of spray solution per acre.

1332805	2.5 Gallons	\$62.00
1332806	Case of 2 ct./2.5 Gals.	\$112.00

Call for larger sizes.

Shipping Restrictions: Cannot ship via US Mail or air shipping methods.

Cannot be shipped to the following states: AK, DC



Ed Rosenthal's Zero Tolerance Pesticide RTU



This Vegan Essential Oil Blend Kills Mites, Insects & Fungi.

TARGET: Spider mites, aphids, whiteflies, thrips, ants, caterpillars, gnats, root aphids, mealybugs, scale, powdery mildew, gray and white mold.

DESCRIPTION: Made from food-grade cinnamon, clove, rosemary & thyme oils, this ready-to-use spray kills and repels plant pests and pathogens. Designed to be used repeatedly, it kills on contact while deterring future pest activity or fungal growth. Best used before pests become an infestation and diseases become chronic. Can be used through the flowering stage up to 2 weeks before harvest. This blend is 100% vegan and evaporates fully, leaving no residue on leaves that can affect taste.

SUGGESTED USE: Should be tested on a few leaves before use. Do not use on wilted or stressed plants. Spray thoroughly on all sides of leaves 1-2 times/week. For Spider Mites: Apply 3 times, 3 days apart or until plants are pest-free.

1458205	Zero Tolerance Pesticide RTU – 1 Quart	\$18.00
1458206	Zero Tolerance Pesticide RTU – 1 Gallon	\$50.00

Cannot be shipped to the following states: AK, AZ, AR, CT, DE, FL, ID, IL, IN, IA, KS, KY, LA, ME, MD, MA, MN, MS, MO, MT, NH, NM, ND, OH, OK, PA, PR, RI, SC, SD, TN, UT, VT, VA, WV, WI, WY



Whitefly Infestation

BEAVERIA BASSIANA

Mycotrol® WPO

A New Formulation For A Reliable Favorite!

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

DESCRIPTION: Mycotrol WPO is a wettable powder mycoinsecticide 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.	\$100.00
1332795	Mycotrol WPO - 1 lb. (Case of 12)	\$1,070.00

Ships via UPS Ground & FedEx Ground ONLY.



BioCeres® WP

This Biopesticide Can Be Used In A Tank Mix Or As A Stand-Alone.

TARGET: Aphids (*Aphidoidea*), whiteflies (*Aleyrodoidea*), thrips (*Thysanoptera*), plant bugs (*Lygus lineolaris*), spotted wing drosophila (*Drosophila suzukii*), borers, beetles and weevils.

DESCRIPTION: This OMRI Listed biopesticide uses the power of *Beauverian bassiana* to control insects in developing and adult stages. Upon application, the spores will adhere to and begin penetrating the insect's outer shell. Once inside the insect, the spores will continue to multiply until they reach its hemolymph (blood). When the spores encounter the blood they will begin feeding on it. Death will occur in 7 to 14 days. 0 pre-harvest interval and 4-hour REI.

SUGGESTED USE: Repeat at 5-7 day intervals as needed. Apply 1-3 lbs. per acre, according to the density of the insect population. For conventional group applications, use at least 50 gallons of spray volume per acre. Thoroughly cover plant foliage with spray solution, but not to runoff.

1332890	BioCeres WP - 1 lb. Bag	\$80.00
1332892	BioCeres WP - Case of 1 lb. Bags/12 ct.	\$880.00

Cannot be shipped to the following states: CA



Beauveria bassiana

Beauveria bassiana is an entomopathogenic fungi that causes white muscadine disease in a range of insects including whiteflies, aphids, thrips, grasshoppers and certain types of beetles. *B. bassiana* spores simply need to come in contact with a host. Once the host insect is infected, the fungus rapidly grows inside of the insect, feeding on the nutrients present in the host's body and producing toxins in the process. When the host dies, the *B. bassiana* covers the carcass in a layer of white mold that produces more infective spores.

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

Application Rates of BotaniGard 22WP

- For whiteflies and aphids, use .5-1 lb. of BotaniGard 22WP per 100 gallons of water.
- For thrips, use 1-2 lbs. of BotaniGard 22WP per 100 gallons of water.
- For other labeled insects, use .5 to 2 lbs. of BotaniGard 22WP per 100 gallons of water.
- Rate depends upon infestation level, consult package instructions before application.

BotaniGard ES

1332801	BotaniGard ES - 1 Quart	\$84.00
1332799	BotaniGard ES - 1 Gallon	\$260.00

BotaniGard 22WP

1332800	BotaniGard 22WP - 1 lb. Powder	\$88.00
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Case sizes available.

Shipping Restrictions: Cannot ship via US Mail.



Grandevo® & Grandevo® WDG



Get Widespread Control With This Multi-Action Microbial-Based Insecticide/Miticide.

TARGET: Aphids, whiteflies, thrips, mealybugs, mites, armyworm, Asian Citrus Psyllids, leafhoppers, *Lygus*, cutworms, beetles, *Drasophila*, loopers, moths, sharpshooters, earworms, caterpillars and more.

DESCRIPTION: Grandevo uses the bacterium *Chromobacterium subtsugae* strain PRAA4-1[†] to provide long-lasting, reliable broad spectrum control of a long list of labeled pests. Its mode of action is multi-faceted; it is toxic when ingested, it repels and it reduces insect reproduction. This OMRI listed and NOP compliant organic pesticide/miticide can be a valuable part of any IPM program. Can be used on a wide range of edible crops in field and greenhouse applications.

SUGGESTED USE: In greenhouses: Use 1-3 lbs./100 gals. of water sprayed until just before point of runoff. Ground & aerial application: Use sufficient water to provide thorough coverage plant parts. For tank mix programs: Apply 1-2 lbs./acre For rotational programs: Apply 2-3 lbs./acre when alternating.

1332950 Grandevo - 5 lbs. **\$112.00**
1332952 Grandevo WDG - 6 lbs. **\$155.00**

Grandevo - 5 lbs. (1332950) cannot be shipped to the following states: CA



Venerate® XC



This OMRI Listed Bioinsecticide Fits Perfectly In Most Any IPM and Resistance Management Programs (RMP).

TARGET: Caterpillars, foliage feeding *Coleopteran*, aphids, whiteflies, Asian Citrus Psyllids (ACP), leafhoppers, stink bugs, mites, *Lygus* and more.

DESCRIPTION: Venerate uses killed cells of the *Burkholderia spp.* strain A396 and spent fermentation media to kill insects in fields and greenhouses. It's toxic when ingested and works on contact to cause enzymatic degradation of exoskeletal structures and fatal interference with the molting process. Not harmful to fish, birds, most beneficials and honey bees.

SUGGESTED USE: Mix with water and apply as a foliar spray. Apply 1-4 qts./acre on a 7-day interval. Smaller scale applications: 2-4 Tbsp./gal. Can alternate with another product on a 7-day interval. No limit on number of applications per season. No spray buffer needed.

1332960 Venerate XC - 2.5 gals. **\$250.00**

Cannot be shipped to the following states: CA



Green Cleaner

An Industry Favorite Because It Works So Well!

TARGET: Soft-bodied insects including spider mites, aphids, whiteflies, broad mites & russet mites. Also effective against powdery mildew.

DESCRIPTION: The mixture of Soybean oil, sodium lauryl sulfate, alcohol and citric acid in Green Cleaner creates a killer combination for insect pests. The oils coat the insects to suffocate or limit sporereproduction and the alcohol and citric acid dehydrates and kills insects. This process affects the mature bugs and their eggs, so the potential for insecticide resistance in future generations is effectively eliminated. You can use Green Cleaner in every stage of plants' lives: as a dip for new cuttings, as a foliar spray during all stages of growth and to prevent cross-contamination when outsourcing plant starts.

SUGGESTED USE: As an insecticide, fungicide or miticide. For use on horticultural plants; not for use on feed or feed crops. Apply with any sprayer (high pressure preferred). Initial drench-2 oz. per gal.; secondary application-1 oz. per gal. (apply every 1-2 days) and weekly maintenance-1/2 oz. per gal. Apply at a rate of -1/2 oz. per gal.

1458050 Green Cleaner - 2 oz. (Makes up to 4 gallons) **\$17.99**
1458051 Green Cleaner - 4 oz. (Makes up to 8 gallons) **\$27.99**
1458052 Green Cleaner - 8 oz. (Makes up to 16 gallons) **\$54.00**

Larger sizes available.

Cannot be shipped to the following states: AL, AR, DC, IA, IL, IN, KS, LA, MO, MS, ND, NM, OK, SD, TN, UT, WI, WV, WY



Monterey Garden Insect Spray



Insect Pests & Powdery Mildew Don't Stand A Chance With This Spinosad Product!

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

DESCRIPTION: This OMRI listed spray is made with Spinosad 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.

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.

1257900 Monterey Garden Insect Spray Conc.- 1 Pint **\$16.99**
1257905 Monterey Garden Insect Spray Conc.- 1 Quart **\$27.00**
1257910 Monterey Garden Insect Spray Conc.- 1 Gallon **\$90.00**

Cannot be shipped to the following states: DC



Azera® Gardening

This Unique Mix Of Azadirachtin & Pyrethrins Offers Exceptional Insect Control.

TARGET: This product will kill the larval, pupal and adult stages of a broad spectrum of over 200 listed insects.

DESCRIPTION: This organic pesticide couples two powerhouses (Azadirachtin and Pyrethrins) to fight both hard-bodied and soft-bodied insects. Hard-to-kill insects will not get past Azera; they will succumb to the quick knock-down kill or perish more slowly once they ingest it. One of these two processes will kill all stages of an insect's life (larval, pupal and adult), effectively eliminating all future generations. This OMRI listed product is hard on insects and soft on the environment.

SUGGESTED USE: Apply Azera as soon as insects appear; do not wait until plants are heavily infested. Apply with any powered or manual pesticide application equipment. The most commonly used rate of application is 2 pints per acre (32 fl. oz. = 946 ml.) Higher populations of adults and/or hard to kill insects may require 3 pints per acre (48 fl. oz. = 1.42 L) or 3.5 pints per acre (56 fl. oz. = 1.66 L.).

1288740	Azera Gardening - 8 oz.	\$37.25
1288750	Azera Gardening - 32 oz.	\$91.25
1288760	Azera Gardening - 1 Gallon	\$341.00



BotaniGard® MAXX

Beauveria bassiana & Pyrethrins Make A Powerful Team!

TARGET: Whiteflies, aphids, thrips, psyllids, spider mites, mealybugs, leafhoppers, weevils, borers and other leaf-feeding insects.

DESCRIPTION: This potent biorational formulation provides a quick knock-down of insect and mite pests. The two active ingredients, *Beauveria bassiana* and Pyrethrins, work independently, yet in harmony, to provide multiple mechanisms to kill harmful insects. The pyrethrins will attack the nerve cells of the insect and the *Beauveria bassiana* strain GHA fungal spores penetrate an insect's protective cuticle and destroy it from within.

SUGGESTED USE: Can be applied at a rate of up to 2 quarts per 100 gallons of water, however most target insects can be controlled at a rate of 1 quart per 100 gallons of water, 1/2 quart per 50 gallons of water or 1 pint per 25 gallons of water. For best results, use as soon as insect pests are spotted, before their population becomes too large. Results can generally be seen within 2-5 days after the first spraying. Do not reapply within 3 days, unless the infestation is extreme. If this is the case, wait 24 hours for reapplication.

1332820	BotaniGard Maxx - 1 Quart	\$87.00
1332821	BotaniGard Maxx - 1 Gallon	\$284.00
1332822	BotaniGard Maxx - 2.5 Gallons	\$585.00

Case sizes available.

Shipping Restrictions: Cannot ship via US Mail.



PyGanic® Gardening

Rapid Knockdown & Kill For Outdoor Pests In Your Garden.

TARGET: Over 100 listed pests, including aphids, beetles, caterpillars, crickets, fruit flies, fungus gnats, mites and thrips.

DESCRIPTION: This updated version of PyGanic offers the same ingredients and results as the former PyGanic 1.4. Pyrethrins, the active ingredient here, have been used safely and effectively for millennia. This formulation can be applied in a variety of ways, making it easy to use no matter what size your garden is. Spraying should begin when the insects first appear, not when they are already heavily infested. Thoroughly cover all plant surfaces. This OMRI listed, NOP compliant insecticide can be used throughout your growing season and up to the day of harvest.

SUGGESTED USE: For use on outdoor gardens and growing areas. Not for use indoors. Not for use on plants grown for sale. Do not exceed the maximum application rates of 1.4 fl. oz. per 1,000 sq. ft. or 59 fl. oz. per acre.

1288710	PyGanic Gardening - 8 oz.	\$20.50
1288720	PyGanic Gardening - 32 oz.	\$49.50
1288730	PyGanic Gardening - 1 Gallon	\$183.50



PyGanic® Specialty

New Label – Same Terrific Product As PyGanic 5.0!

TARGET: Livestock and poultry pests as well as over 100 listed plant pests.

DESCRIPTION: With this OMRI listed, Pyrethrin-based insecticide you will be able to protect nearly everything you grow or raise from destructive and disease carrying insect pests. This includes the commercial production of livestock, poultry and crops. These commercial enterprises require more frequent and higher volume application rates than smaller scale producers and this concentrated version is easily adapted to these specific needs. PyGanic Specialty works best if it is applied when pests first appear, before there is a heavy infestation. Thorough coverage is also key; direct contact needs to be made with the pest insects.

SUGGESTED USE: For use on production animals in barns, dairies, milking parlors, milking rooms and poultry houses. For use on horse flies, house flies, mosquitoes and gnats, dilute at the rate of 1.5-3 fl. oz. per 1 gallon of water and apply. Please see label for more detailed instructions on other livestock and crop pests.

1288770	PyGanic Specialty - 32 oz.	\$144.00
1288780	PyGanic Specialty - 1 Gallon	\$530.00



BIOLOGICAL CONTROL

Mosquito Bits®

Harness The Power Of Bti For A Clean, Quick Kill.

TARGET: Mosquitoes and fungus gnats.

DESCRIPTION: Mosquito Bits uses the biological larvicide *Bacillus thuringiensis v. israelensis* (Bti) to quickly kill mosquito larvae in a wide range of habitats. When spread uniformly over the surface of water, the Bti will float down into the water where the larvae will consume it and die; usually within 24 hours. Bits are not harmful to people, animals or plants. Repeat after a 7-10 day interval. For Fungus Gnat control: Spread the granules over the soil until the area is covered. Moisture in the soil will dissolve the Bits. Re-apply every 3 weeks.

SUGGESTED USE: Sprinkle 1 teaspoon per 25 sq. ft. or 1 tablespoon per 75 sq. ft. (½ lb. per 2178 sq. ft.) over the surface of containerized standing water. This includes bird baths, water troughs, unused swimming pools, old automobile tires, water gardens, rain barrels and more. DO NOT APPLY to finished human drinking water sources.



1211108	Mosquito Bits - 8 oz.	\$10.95
1211136	Mosquito Bits - 30 oz.	\$17.80
1211139	Mosquito Bits & Dunks Combo Kit	\$18.99

Mosquito Dunks®

Simply Place In Standing Water To Kill Mosquitoes Where They Grow.

TARGET: Mosquitoes.

DESCRIPTION: When placed in standing water, Mosquito Dunks will float on the water and they will slowly release the bacteria *Bacillus thuringiensis v. israelensis* (Bti) as they melt. This bacterium is a potent mosquito larvicide and as it disperses into the water it is eaten by, and kills, the mosquito larvae growing there. Dunks can be anchored with a string to keep them from washing away. They can also alternate between being wet and dry without losing effectiveness. Bti targets specific pests and is not harmful to people, animals or plants. Each dunk is effective for 30 days.

SUGGESTED USE: Use 1 dunk for 100 sq. ft. of water. Use in any containerized standing water found near the home, except finished, treated drinking water. This includes bird baths, water troughs, unused swimming pools, old automobile tires, water gardens, sump pumps and more.



1211101	Mosquito Dunks - 6 Pack	\$13.95
1211103	Mosquito Dunks - 20 Pack	\$22.95
1211139	Mosquito Bits & Dunks Combo Kit	\$18.99

AQUABAC® 200G Granular Bti Mosquito Control



Use This Bti Larvicide Wherever You Have Mosquitoes Breeding

TARGET: Larval stages of mosquitoes and black flies.

DESCRIPTION: AQUABAC 200G contains *Bacillus thuringiensis var. israelensis* (Bti), a bacteria that specifically targets mosquitoes and black flies in their larval stage, but is harmless to other living things. Once ingested, Bti will work quickly to damage cells and paralyze the larva. In addition, since AQUABAC 200G does not affect larva predators, they will continue their work alongside the Bti.



SUGGESTED USE: Can be applied to almost any habitat that supports mosquito or black fly larvae. Do not use directly in water sources for human consumption. Broadcast by hand or hand spreader in small areas or by standard ground or aerial dispersing methods for larger areas. If water is clear, broadcast at 2.4-10 lbs. per acre. If water is brackish, murky, polluted or full of algae, broadcast 10-12 lbs. per acre. Lasts for approximately 2 weeks.

1211150 AQUABAC Granular Bti - 40 lb. - **Free Shipping*** \$187.00
 *Free Shipping on 40 lb. bag only, in the contiguous 48 states.
 Ships via Ground ONLY. Call for pallet pricing.

AQUABAC® Xt



Use This Powerful Biocontrol Liquid To Kill Mosquito Larvae In Water.

TARGET: Larval stages of mosquitoes, fungus gnats, aquatic midges and nuisance flies.

DESCRIPTION: This *Bacillus thuringiensis var. israelensis* (Bti) offers the same powerful pest control in a convenient liquid form. Bti is a bacterial that expressly targets mosquitoes, fungus gnats, aquatic midges and nuisance flies in their larval stages. Once ingested, it will work rapidly to damage cells and fatally paralyze the larva. AQUABAC Xt will not harm any other form of aquatic life or beneficial insects.

SUGGESTED USE: This product can be applied via conventional aerial and ground application equipment (or metered release system) in nearly any habitat that supports the targeted pest larvae. For mosquitoes, use between .25-2.0 pts./100 gals. Higher rates apply when water is polluted, adult populations are high or there is a lot of algae. Do not apply this product in any type of irrigation system or in any sources of water that are for direct human consumption. More specific application rates can be found on the package label.



1211160	AQUABAC Xt - 2.5 Gallons*	\$190.00
1211161	AQUABAC Xt - 2.5 Gallons/Case of 2*	\$340.00

*Free Shipping in the contiguous 48 states. Ships via Ground ONLY.
Cannot be shipped to the following states: NY



WHAT ARE FLY ELIMINATORS?

The Sensible Alternative To Pesticides

Fly Eliminators are tiny ≈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.

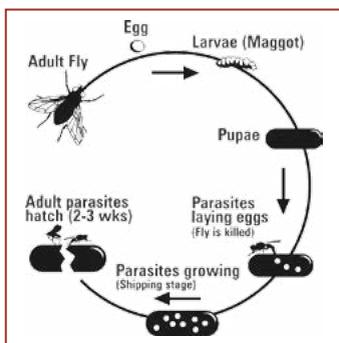


Adult Fly Eliminator emerging from fly pupa.

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

SPECIAL PRICING

LOCK IN THE LOWEST PRICES FOR 2019 PROGRAMS!

Sign up by Dec. 31, 2018!

Only \$16.95

**Per Shipment for 2-5 Horses
USPS Shipping Included in Prices!**

Number of Horses/Animals	Suggested Units ¹	Price Per Shipment
1	1/4 Unit	\$13.95
2 - 5	1/2 Unit	\$16.95
6 - 10	1 Unit	\$26.95
11 - 15	1 1/2 Units	\$36.95
16 - 20	2 Units	\$48.95
21 - 25	2 1/2 Units	\$59.95
26 - 30	3 Units	\$69.95
31 - 35	3 1/2 Units	\$77.95
36 - 40	4 Units	\$84.95
41 - 45	4 1/2 Units	\$92.95
46 - 50	5 Units	\$96.95
51 +	Please Call 1-800-827-2847	

**Order Your Fly Control Program Today!
VIP Pricing Valid Through Dec. 31, 2018.**

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



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.

Call 1-800-827-2847 or visit www.arbico-organics.com

¹These 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. © 2018 Arizona Biological Control, Inc.

BIOLOGICAL MAGGOT CONTROL

Sc 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.



Fly Maggots

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 Sc Beneficial Nematodes - ~5 million	\$36.00
1220320	NemAttack Sc Beneficial Nematodes - ~10 million	\$42.95
1220321	NemAttack Sc Beneficial Nematodes - ~50 million	\$72.00
1221702	NemAttack Sc Beneficial Nematodes - ~250 million	\$198.00
1221705	NemAttack Sc Beneficial Nematodes - ~500 million	\$270.00

*See page 15 for free shipping details.

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

MANURE MANAGEMENT

EM•1® Microbial Inoculant



Faster Breakdown Of Organic Matter.

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.

1220298	EM•1 Microbial Inoculant - 16 oz.	\$26.00
1220101	EM•1 Microbial Inoculant - 1 Quart	\$35.00
1220102	EM•1 Microbial Inoculant - 1 Gallon	\$75.00
1220103	EM•1 Microbial Inoculant - 5 Gallons	\$290.00

Call for larger sizes.

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



SCD Probiotics Barn Kleaner

Great For Manure Odor & Decomposition!

TARGET: Manure odors and resultant pathogenic organisms and flies/insects that it attracts, manure composting operations, and cleaning of barns, corrals, paddocks, etc.

DESCRIPTION: Animal manures can contain harmful organisms, emit unpleasant odors and serve as natural breeding grounds for flies and other pesky insects. Composed from fourteen different species of beneficial microorganisms, this product can be used around animals to help clean areas where manure is present and can help accelerate the decomposition of manure. Use this product as part of a fly control program to stop adult flies from having a place to lay eggs and support new generations.

SUGGESTED USE: For barn cleaning apply approximately cup/2.5 gal. of water using a backpack sprayer or portable hand sprayer twice per week. Use on all bedding areas, directly on manure and on all surfaces, including floors, wall and ceilings. Store at room temperature and away from direct sunlight.

1202700	SCD Barn Kleaner - 1 Liter	\$13.50
1202701	SCD Barn Kleaner - 1 Gallon	\$43.00
1202704	SCD Barn Kleaner - 5 Gallon	\$170.00

Case sizes available.



SCD ScentGuard™ (Formerly sold as SCD Odor Away™)



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.

1202721	SCD ScentGuard - 1 Liter	\$13.50
1202722	SCD ScentGuard - 1 Gallon	\$43.00

Case sizes available.



ADULT FLY TRAPS & REPELLENTS

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 paper clips, 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	\$18.99
1256021	Biting Fly Trap - Pack of 3	\$48.95
1256022	Biting Fly Trap - Pack of 5	\$75.50
1256023	Replacement Sleeves White - Pack of 1	\$3.95
1256024	Replacement Sleeves White - Pack of 3	\$8.25
1256025	Replacement Sleeves White - Pack of 5	\$12.50
1256026	Replacement Sleeves White - Pack of 10	\$22.50

PyGanic® Specialty

New Label – Same Terrific Product As PyGanic 5.0!

TARGET: Livestock and poultry pests as well as over 100 listed plant pests.

DESCRIPTION: With this OMRI listed, Pyrethrin-based insecticide you will be able to protect nearly everything you grow or raise from destructive and disease carrying insect pests. This includes the commercial production of livestock, poultry and crops. These commercial enterprises require more frequent and higher volume application rates than smaller scale producers and this concentrated version is easily adapted to these specific needs. PyGanic Specialty works best if it is applied when pests first appear, before there is a heavy infestation. Thorough coverage is also key; direct contact needs to be made with the pest insects.

SUGGESTED USE: For use on production animals in barns, dairies, milking parlors, milking rooms and poultry houses. For use on horse flies, house flies, mosquitoes and gnats, dilute at the rate of 1.5-3 fl. oz. per 1 gallon of water and apply. Please see label for more detailed instructions on other livestock and crop pests.



1288770	PyGanic Specialty - 32 oz.	\$144.00
1288780	PyGanic Specialty - 1 Gallon	\$530.00



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" diameter 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
1256005	ARBICO Organics Solar Fly Trap - Includes 4 Baits	\$108.00
1256002	ARBICO Organics Fly Bait for Solar Fly Trap	\$9.99

Volume Pricing!

1259990	ARBICO Organics Solar Fly Trap - 2 Pack	\$160.00
1259991	ARBICO Organics Solar Fly Trap - 3 Pack	\$234.00
1259992	ARBICO Organics Solar Fly Trap - 4 Pack	\$300.00
1259994	ARBICO Organics Solar Fly Trap - 6 Pack	\$450.00

Replacement parts available online.

*FREE SHIPPING via ground or US Mail ONLY.

ARBICO Organics™ Holistic Fly Defense

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

TARGET: Repels flies, mosquitoes and gnats.

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. **Active ingredients:** Lemongrass oil, geranium oil, geraniol, citronella oil, sodium lauryl sulfate, potassium sorbate.

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



1108702	Holistic Fly Defense - 32 oz. Concentrate	\$28.00
1108707	Holistic Fly Defense - 1 Gallon Concentrate	\$80.00

Cannot be shipped to the following state: AL

FROST PROTECTION

Agribon®

Protect Your Fruits, Vegetables, Row Crops, Trees and Ornamentals With Agribon Row Covers!

TARGET: Large home gardens, truck gardens, market growers and others.

DESCRIPTION: Agribon row covers are recognized for quality, durability and affordability. The polypropylene fabric is spun-bonded with double-bonded seams and UV stabilizers. You can expect 1-3 growing seasons from Agribon.

- Prolongs the growing season by protecting from frost, sun, and wind damage.
- Protects from drying conditions and conserves water by reducing evapotranspiration.
- Speed up germination.
- Protects seeds from birds.
- Protects plants from marauding insects.
- Make sure that Agribon is securely installed well to ensure that plants are protected to the limits of the product. Use Agribon with Loop Hoops for protection that will remain in place until you remove it.

*** Items in stock!**

Turnaround times are approximate. Standard sizes may require up to 3 week processing time. Shipping Method determined by size and weight. See website or call for ground or freight estimates.

For additional sizes and availability, please call (800) 827-2847.

AG-15		
Lightweight with 90% light transmission, (.45 oz./square yard). Use for pollination control, heat sensitive crops and insect pests on potatoes, greens, cabbages and radishes. Made of spun bonded polypropylene fabric.		
SKU	Size	Retail
3000030	9'10" x 50'	\$29.99
3000031	9'10" x 250'	\$59.99
3000034	9'10" x 2000'	\$313.00
3000035	19' x 2000'	\$577.00

AG-19		
Lightweight (0.55 oz. per sq. yd.), protects to 28°F (provides up to 4°F protection), 85% light transmission. Does not require frames or hoops.		
SKU	Size	Retail
3000000	83" x 50'*	\$24.99
3000003	83" x 250'	\$59.99
3000004	83" x 2000'	\$290.00
3000041	10' x 50'*	\$29.99
3000042	10' x 250'	\$78.99
3000043	10' x 500'	\$149.00
3000045	14' x 1000'	\$288.00
3000046	20' x 1000'	\$435.00
3000048	30' x 1000'	\$592.00
3000049	35' x 1000'	\$693.00
3000050	40' x 1000'	\$900.00
3000051	45' x 1000'	\$945.00
3000052	50' x 300'	\$305.00
3000053	50' x 500'	\$520.00
3000054	50' x 1000'	\$945.00
3000040	61.5" x 3000'	\$360.00

AG-30		
Lightweight (0.9 oz. per sq. yd.), protects to 26°F to 28°F (provides between 4°F – 6°F protection), allows 70% light transmission. Hoops or frames are recommended.		
SKU	Size	Retail
3000010	83" x 50'*	\$19.99
3000013	83" x 250'	\$119.00
3000060	10' x 250'	\$115.00
3000062	14' x 800'	\$395.00
3000064	26' x 800'	\$665.00

AG-50		
Highest level of protection, weighs in at 1.5 oz. sq. yd., protects to 24°F (provides up to 8°F of protection), allows 50% light transmission. Hoops or frames are recommended.		
SKU	Size	Retail
3000020	83" x 50'*	\$29.99
3000026	7' x 7' (5/pack)*	\$29.99
3000090	10' x 500'	\$295.00
3000091	10' x 1500'	\$990.00
3000027	14' x 14' (2/pack)	\$39.99
3000092	14' x 500'	\$405.00
3000028	26' x 26'	\$45.00
3000093	26' x 500'	\$665.00
3000096	50' x 300'	\$790.00
3000097	50' x 500'	\$1,440.00



Harvest Guard™ Protective Covers

Ultra Lightweight! For Shrubs, Plants, Lawns & Crops.

TARGET: Protect ornamentals, trees, plants & crops.

DESCRIPTION: Harvest Guard Protective Covers and Bags retain warmth and moisture while venting excess heat. Made from 1.6 oz. reemay, they provide protection from frost, snow, ice and harsh winds in fall, winter and early spring. Use when temperatures are as low as 29°F. Bags have adjustable closures for a custom fit and added wind security. Covers can be used as seed germination blankets and to protect plants from insects, birds or animals.



SUGGESTED USE: Drape covers loosely, allowing slack for plants to grow. To shield from wind, secure every 6-8 ft. using nails, rocks, etc. To shield from pests, bury edges 1-4 inches. Keep in place for up to 8 weeks, depending on temperatures. Apply liquid fertilizers or water directly to or under cover. Remove during pollination, for tomatoes and peppers at 80°F, and for all plants at 85°F. To germinate grass seed, spread cover over packed seeds, secure every 6-8 ft., keep soil moist for 5-7 days, and lift up when blades grow through. Leave on until grass is several inches tall.

1269505	Plant Protection Bag - 8' x 6'	\$10.25
1269514	10' x 12' Cover	\$12.00
1269507	10' x 15' Cover	\$12.50
1269509	40' x 50' Cover	\$12.50
1269510	5' x 25' Cover	\$12.50
1269516	10' x 20' Cover	\$17.00
1269512	5' x 50' Cover	\$19.00

CowPots™

An Odor Free Sustainable Way To Plant!

TARGET: People who want a new and environmentally friendly way to plant.

DESCRIPTION: Eco-friendly CowPots are a top quality plantable pot. Gardeners, farmers, and commercial growers are using and raving about this product. CowPots are made with 100% renewable composted cow manure, are 100% biodegradable, and can simply be planted in the soil with your plant. With a few easy steps you'll love using CowPots. **Call or visit our website for more detailed directions and information for sizing.**



3000400	CowPots #3 Square - 12 Pots Per Pack	\$4.99
3000411	CowPots #3 Round - 12 Pots Per Pack	\$4.75
3000422	CowPots #3 SixCell - 3 Pots Per Pack	\$4.29
3000433	CowPots #4 Square - 12 Pots Per Pack	\$5.50
3000444	CowPots #5 Round - 66 Pots Per Box	\$33.00
3000450	CowPots #5 Square - 60 Pots Per Box	\$32.00
3000456	CowPots #6 Round - 42 Pots Per Box	\$24.00
3000462	CowPots #6 Square - 54 Pots Per Box	\$45.00
3000468	CowPots #7 Square - 90 Pots Per Box	\$107.00
3000471	CowPots #12 Square - 40 Pots Per Box	\$150.00
3000474	CowPots #17 Round - 5 Pots Per Box	\$80.00

Organic & Non-GMO Seeds

ARBICO Organics recognizes the need for organic and non-GMO seeds and we are committed to providing our customers with excellent options to choose from. Consider the use of cover crops to improve soil fertility & quality; increase biodiversity; as a trap crop; smother out weeds; attract wildlife & pollinators; and reduce soil erosion. See website for details.



NATIVE SEEDS / SEARCH

Native Seeds / SEARCH is a Tucson, Arizona based non-profit organization that is committed to the conservation and promotion of arid adapted seeds. They are particularly focused on seed for food crops that improves food security in the United States and NW Mexico. ARBICO Organics is proud to be able to provide these

high-quality, organically grown, non-GMO seeds.



SERO BIODYNAMIC SEEDS

The principles of Biodynamic agriculture were first developed in the 1920's as a three-tiered approach to growing that incorporates ecological, social and economic sustainability. A biodynamic farm is consciously ethical in its practices and works to grow health and fertility from within

to create the very best in agriculture, food production and nutrition. Modern growers are embracing this philosophy of holistic agriculture combined with social consciousness and are bringing with them a new spin on things that continues to keep the Biodynamic world vital.



SWEET GARDEN ORGANICS

Sweet Garden Organics offers fine heirloom, non-GMO seeds and organic soil amendments to encourage and help people grow the best possible garden. Working

with Mother Nature is the best way to keep our delicious heirloom foods alive in our food chain and is the path to a harmonious and healthy future. We are proud to carry the beautiful seeds from this family-owned Arizona business!



TERROIR SEEDS

Located smack-dab in the middle of Arizona, Terroir Seeds offers only open-pollinated and heirloom seeds. The owners of this family-owned and run business are part of a worldwide effort to protect plant species from extinction. By saving seeds and using them to propagate over many seasons, we can grow food that has naturally adapted to its environment.

SOIL AMENDMENTS

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 Compost Plus - 1 lb. Bag **\$8.90**
- 1305602 Compost Plus - 5 lb. Bag **\$11.50**
- 1305610 Compost Plus - 1 Cubic ft. Bag **\$17.00**
- 1305603 Compost Plus - (2) 1 Cubic ft. Bags **\$28.00**
- 1305607* Compost Plus - 1/2 Ton Pickup Truck Load **CALL**

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



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 - Small

\$9.00



ARBICO Organics™ Composting Worms - *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 tray or 10 qt. worm bin. ≈2-3 worms/≈1 sq. ft., 1,000 worms/400 sq. ft.

- 1308003 ARBICO Organics Earthworms (≈1,000) **\$34.00**
- 1308020 ARBICO Organics Earthworms (≈2,000) **\$49.50**
- 1308050 ARBICO Organics Earthworms (≈5,000) **\$99.00**

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



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 1 in. 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 Earthworm Castings - 1 lb. Bag **\$4.95**
- 1308201 Earthworm Castings - 5 lb. Bag **\$15.20**
- 1308202 Earthworm Castings - 10 lb. Bag **\$25.00**
- 1308203 Earthworm Castings - 25 lb. Bag **\$47.95**

Sustane® Compost Tea Bags, 4-6-4



A High Nutrient Plant Food In Easy To Brew Compost Tea Bag.

TARGET: For use as a plant food/soil amendment for all vegetables, flowers, trees and shrubs.

DESCRIPTION: These tea bags are filled with a high quality compost (derived from aerobically composted turkey litter, hydrolyzed feather meal and sulfate of potash) that is weed and pathogen free and made without bone or blood products. Each 21-gram bag requires no additional measuring or equipment to use and provides a controlled dose of nutrients for either foliar (compost tea) or soil (root feeder) application. Your plants will thrive abundantly with the micro-organisms, high nitrogen content and increased root growth these bags provide.

SUGGESTED USE: Steep tea bags in water for compost tea to be used either as a foliar spray or a soil drench or place in soil medium as a root feeder. For tea, use 1 tea bag per gallon of water. For root feeding, place in hole or pot before introducing plant and use 1 bag per gallon pot or every 12" of plant height.



- 1305550** Sustane Compost Tea Bags - 1 Bag (12 ct.) **\$9.00**
 - 1305570** Sustane Compost Tea Bags - 1 Bag (50 ct.) **\$25.00**
- Case sizes available.

Sensational Solutions Micronized Compost Tea, 1.6-1.4-1.3



You Can Use This Tea Immediately Or Create A Concentrate.

TARGET: For use as a fertilizer and soil amendment in any farming/growing program.

DESCRIPTION: This tea offers readily available nutrition to the microbial colonies found on plants and in soil. There's no need to strain this compost tea, its micronized formula goes straight into suspension. Use on its own or with any fertilizer program. EnviroOrganic certified, a product and product-based certification that is the highest level offered by Envirocann.

SUGGESTED USE: Use with dechlorinated water. RTU: mix 1/4-2 tsps./gallon of water. Concentrate: add 1-2 Tbs./water & equal amount of molasses or carbohydrate source. Aerate 1-3 days. Dilute 1:30-1:50 in water and apply. Transplanting: approx. 1/8-1/2 tsp. per hole. Soil Amendment: apply 1/4-1 Tbs. per cu. ft. every 3-4 weeks.



- 1314730** Micronized Compost Tea - 8 oz. **\$13.33**
- 1314731** Micronized Compost Tea - 1 lb. **\$23.33**
- 1314732** Micronized Compost Tea - 5 lbs. **\$103.33**
- 1314733** Micronized Compost Tea - 10 lbs. **\$203.33**
- 1314734** Micronized Compost Tea - 25 lbs. **\$500.00**

Cannot be shipped to the following states: AL, AK, AR, CO, DE, DC, FL, GA, HI, ID, IL, IN, IA, KS, KY, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, NH, NJ, NM, NY, NC, ND, OH, OK, PA, PR, RI, SC, SD, TN, TX, UT, VT, VA, WV, WI, WY

Earth Alive™ Soil Activator™



Bring Your Soil To Life With This Powerful Organic Soil Inoculant!

TARGET: For use on all types of plants and soils.

DESCRIPTION: This OMRI listed soil inoculant is a patent-pending mix of three naturally occurring soil microorganisms and an all-natural wood extract (a forestry by-product). The beneficial bacteria in Soil Activator solubilize phosphorus and fix atmospheric nitrogen for improved nutrient availability to plants and increased yields. They also encourage active root growth for robust plants from the root up. Can be used as a dry mix soil or as a soil drench.

SUGGESTED USE: Use at the beginning of each growth cycle or season. Option 1: 3.5 oz. of treats up to 21 gallons of soil. Mix with soil at seeding or transplant. Option 2: 3.5 oz. treats up to 1,080 sq. ft. of garden. Mix with at least 2 gallons of water and apply at the base of plants.

- 1202170** Earth Alive Soil Activator, 50 gr. / 1.76 oz. **\$4.99**
- 1202171** Earth Alive Soil Activator, 425 gr. / 15 oz. **\$19.99**
- 1202172** Earth Alive Soil Activator, 1 kg. / 2.2 oz. **\$36.99**

Cannot be shipped to the following states: AL, AR, CA, LA, SD, VT, WV, WI



TerraGrow®



Beneficial Microorganisms To Stimulate Root Development, Increase Nutrient Uptake & Reduce Transplant Shock.

TARGET: High value crops and seedlings in farms, fields, greenhouses and hydroponic systems.

DESCRIPTION: This soil inoculant uses a specialty formula to reestablish beneficial organisms in and around the root zone to stimulate root development. Healthy root development is the first step to limiting stressors on the plants and increasing yields. TerraGrow is completely water soluble making irrigation applications a breeze. Contains no genetically altered microbial strains. OMRI listed for organic production.

SUGGESTED USE: 0.6-1.0 oz. per 100 gallons of water for most soil and hydroponic applications. Use 1-1.5 lbs. per acre prior to or immediately after transplanting. Repeat applications every 3-4 weeks through the growing season.



- 1222700** TerraGrow - 10 lbs. **\$225.00**
- 1222701** TerraGrow - 25 lbs. **\$540.00**
- 1222702** TerraGrow - Pallet of 50, 10 lbs. **CALL**
- 1222703** TerraGrow - Pallet of 32, 25 lbs. **CALL**

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.



1202098	EM•1 Microbial Inoculant - 16 oz.	\$26.00
1202101	EM•1 Microbial Inoculant - 1 Quart	\$35.00
1202102	EM•1 Microbial Inoculant - 1 Gallon	\$75.00
1202103	EM•1 Microbial Inoculant - 5 Gallons	\$290.00

Call for larger sizes.

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

Garden Solution®



Stimulate Root Growth & Boost Yields With This Special Blend of Beneficial Microbes and Enzymes.

TARGET: High value crops in farms, fields, greenhouses, hydroponic and aquaponics systems.

DESCRIPTION: This OMRI listed biological soil inoculant serves as a catalyst to stimulate root growth and microbial activity to boost harvest yield and quality. Proven effective, this blend is designed to benefit a wide-selection of high-value crops. It reduces the effects of abiotic stress factors like transplanting, drought and soil salt content. In addition to the beneficial microbes, Garden Solution contains an optimal blend of enzymes to stimulate microbial colonization in the soil. This ensures development of a healthy and bioactive root zone and boosts overall plant vigor.

SUGGESTED USE: Dilute 100x in water (or 3 tsp. per gal.). Apply throughout growing season or every 30 days. For stressed plants, add 6 tbsp. per gal. and apply weekly.



1202150	Garden Solution – 1 Liter	\$25.25
1202151	Garden Solution – 1 Gallon	\$63.00
1202152	Garden Solution – 2.5 Gallons	\$105.00
1202155	Garden Solution – 55 Gallon Drum*	CALL

*Call for freight quote.

Cannot be shipped to the following states: AL, AK, AR, CT, DC, HI, IA, IN, KS, KY, ME, MA, MI, MS, MO, MT, NE, NH, NV, NJ, OH, OK, RI, SD, TN, TX, UT, VT, WI, WV, WY

Nitron Formula A-35 Micro-Nutrients

Breathe New Life Into Your Soil And Watch Your Production Bloom!

TARGET: Houseplants, transplants, flowers, vegetables, lawns, shrubs, trees and bare root plants.

DESCRIPTION: Nitron A-35 acts as an enzyme catalyst to create and keep vibrant soil. It works to enhance soil by breaking chemical bonds, stimulating microbial life to enhance soil texture, increasing access to nutrients, working symbiotically with other soil building products and by improving soil germination. Nitron A-35 can be applied year-round when weather permits. Will not harm children, pets and wildlife.



SUGGESTED USE: Can be applied with a hose applicator, pressurized garden spray or by hand watering.

- Houseplants/Transplants/Cuttings: Use 1 tsp/gallon of water once or twice a month. Use 1/4 tsp/quart of water when misting.
- Lawn/Garden: Apply 1 qt/2500 sq. ft. Incorporate into soil watering or by tilling to a depth of 1-2”.
- Roses: Apply 1/4-1/2 cup per rose on initial application.
- Shrubs/Trees: Mix ¼ cup/1 foot of height with water. Apply evenly within drip line area and soak in thoroughly.

1320101	Nitron Formula A-35 - 1 Pint	\$10.70
1320106	Nitron Formula A-35 - 1 Quart	\$18.45
1320103	Nitron Formula A-35 - 1 Gallon	\$44.00
1320104	Nitron Formula A-35 - 5 Gallon	\$142.00

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	\$19.80
1328402	Nitron's Humic Acid - 1 Gallon	\$39.95
1328406	Nitron's Humic Acid - 5 Gallons	\$125.00



Image Citation: Aberdeen Mycorrhiza Research Group

ARBICO Organics™ Root Build 240™ Mycorrhizal Fungi

This Potent Mycorrhizal Fungi Has An Incredible 240 Spores/gr To Maximize Root Colonization.



TARGET: The benefits of introducing mycorrhizal fungi to your soil are numerous: accelerate and increase plant growth; increase plant yield and quality; increase absorption of water and nutrients; and promote plants tolerant to disease, drought & salinity.

DESCRIPTION: New Root Build 240 contains both micronized Endo and Ecto mycorrhiza for a wide range of plant applications. This greater diversity in beneficial fungi meets the needs of a greater variety of plants. When introduced early in the life of a plant, the endo and ecto will increase the roots' ability to absorb water and nutrients. Endomycorrhizae work within and around the roots of most vegetables, grasses, flowers and ornamentals while ectomycorrhizae live only on the outside of roots and focus on conifers. The high spore count in Root Build 240 means there will be maximum colonization of your plants' roots.
Endo Spores: 240 spores/gr.
Ecto Spores: 1 x 10⁶ spores/gr.

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

1135001	ARBICO Organics Root Build 240 - 1 oz.	\$9.00
1135002	ARBICO Organics Root Build 240 - 2 oz.	\$12.50
1135003	ARBICO Organics Root Build 240 - 8 oz.	\$31.50
1135004	ARBICO Organics Root Build 240 - 1 lb.	\$45.00
1135005	ARBICO Organics Root Build 240 - 10 lbs.	\$329.00

Cannot be shipped to the following states: HI

Mycormax® Biological Inoculum



For Healthy, Productive Plants Inoculate With This Balanced Beneficial Mycorrhizae.

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*, *Scleroderma cepa*, *Scleroderma geastrum*, *Scleroderma 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 Biological Inoculum - 24 Tea Bags Per Pack **\$10.25**
Cannot be shipped to the following states: AR, CO, CT, DE, DC, FL, HI, ID, IL, IO, KS, ME, MD, MI, MN, MS, MT, NE, NH, NM, NC, ND, OH, OK, PA, RI, SC, SD, TN, UT, VT, VA, WV, WI, WY



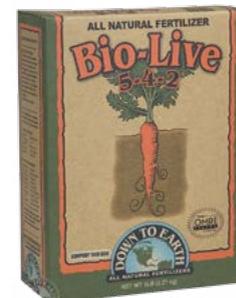
Down To Earth™ Bio-Live, 5-4-2



This Product Has It All – Including Mycorrhizal Fungi!

TARGET: Soils depleted of both nutrients and beneficial microbial activity.

DESCRIPTION: Made from fish bone meal, fish meal, feather meal, crab meal, alfalfa meal, K-Mag, humates, kelp meal, beneficial bacteria and Mycorrhizal fungi. This great all-purpose goes the extra mile by not only fertilizing but it also helps to stimulate soil root relationships.



SUGGESTED USE: Apply 3-5 lbs./100 sq. ft. at planting and as needed.

1300260	Down To Earth Bio-Live - 5 lbs.	\$13.49
1300261	Down To Earth Bio-Live - 25 lbs.	\$51.09
1300262	Down To Earth Bio-Live - 50 lbs.	\$87.89

Cannot be shipped to the following states: AL, AR, CT, DE, HI, IA, KS, KY, MS, ND, NE, NH, OK, PR, RI, SC, SD, VT, WV, WY

Beneficial Mycorrhizal Fungi Increases Nutrient & Water Uptake & Helps Prevent Soil-Borne Diseases.

Down To Earth™

Down to Earth makes organic fertilizers that boost soil health and encourage plant growth in an earth-friendly and sustainable manner. Nutrients provided by the fertilizers give your plants that needed extra boost for vigorous growth and the countless microorganisms in the soil will thrive with the extra sustenance and keep your soil healthy. Have a small garden? Try the new “mini” sizes.



JH Biotech, Inc.

JH Biotech, Inc. manufactures traditional and organic products for home and commercial use. Their products can be used in locations such as greenhouses, nurseries, field crops and gardens. Their Research Division is dedicated to improving food productivity without sacrificing quality or safety.



John & Bob's Smart Soil Solutions

Rich, vibrant soil is the key to a fertile and self-sustaining garden ecosystem. John & Bob's creates soil products that build healthy, productive soils the way that nature does – with beneficial microorganisms, minerals and microbes. Create soil that is bursting with life with the four product system of Optimize, Maximize, Nourish-Biosol and Penetrate.



Maxicrop

Maxicrop goes to the frigid waters off the Norwegian coast for the seaweed that they use in their products. There the confluence of arctic waters, mountain run-off and the Gulf Stream creates the perfect environment for the finest seaweed to grow. The quality of their products show the journey's worth it.



Neptune's Harvest

Neptune's Harvest, a division of Ocean Crest Seafood, makes their fertilizers from the fish that they catch in the nutrient-rich North Atlantic Ocean. In this way, they utilize 100% of the seafood they harvest. These highly nutritious protein fertilizers are made by using a cold process employing enzymes (natural biological catalysts) to break down the flesh, and other parts of the fish, into simpler protein complexes. This process is called Hydrolysis and the result is an exceptional fish hydrolysate fertilizer.



SaferGro

SaferGro products are brought to us by SaferGro Labs, a facility focused on the research and development of organic and safe products for commercial and home garden use. By using SaferGro products, all growers can take advantage of this research. These products provide a safe way to enter into the world of earth-friendly growing.



Spiked Soil

Developed by horticulture professionals with 30+ years of experience, these products were created to give growers all that they need for optimum results without the hassle and expense of mixing different products. After years of perfecting a solution, testing and tweaking based on trial results and feedback, Spiked Soil has created the ultimate organic plant cocktail. These three unique concoctions supply everything you need for a great grow.



Sustâne

One of the world's leading manufacturer-exporters of organic fertilizers, Sustâne products are made in the USA and exported to over 60 countries. Their granular fertilizers are made from aerobically composted turkey litter with added plant nutrients and soil amending ingredients and are backed by over 30 years of independent applied research. Each fertilizer is USDA Bio based certified and OMRI listed.



Chameleon Adaptable Hose End Sprayer

Get Perfect Application With This Highly Adjustable Sprayer.

DESCRIPTION: Multipurpose sprayer that works great with Beneficial Nematodes (see pages 13-15). This affordable, easy-to-use, light-weight multi-purpose sprayer is perfect for applying your natural biologicals, fertilizers, amendments, insecticides, herbicides & fungicides.

SUGGESTED USE: Any garden products requiring dilution and application with a sprayer, including applying Beneficial Nematodes.



1800006 Chameleon Adaptable Hose End Sprayer - 1 Sprayer **\$14.75**

ThermX™-70 Natural Wetting Agent



Overcome Adverse Water Conditions!

TARGET: Increases water & fertilizer uptake.

DESCRIPTION: This natural wetting agent is derived from yucca and contains 20% saponin extracted from *Yucca schidigera*. Saponin helps plants overcome adverse water conditions and is a great sticker for other sprays. Use ThermX-70 to increase crop's ability to establish in stressed conditions and increase water and fertilizer uptake. Increases permeability in heavy clay soil and reduces salt and alkali problems by improving drainage. Stimulates root growth, extending the area irrigation reaches.

SUGGESTED USE:

Wetting Agent: ≈1/4 tsp./gal. water, ≈2-3 oz./acre

Soil: ≈1-2 tsp./gal. water, ≈16 oz./acre

- 1402403** ThermX-70 Natural Wetting Agent - 1 Quart **\$27.00**
- 1402404** ThermX-70 Natural Wetting Agent - 1 Gallon **\$94.50**
- 1402405** ThermX-70 Natural Wetting Agent - 5 Gallons **\$330.55**
- 1402406** ThermX-70 Natural Wetting Agent - 55 Gallon Drum* **CALL**

*Call for freight quote.

Call for larger sizes.



All Purpose Dispenser Tube

Dispense Milky Spore & Other Powdered Material Easily!

DESCRIPTION: Use with Milky Spore and other powdered products and fertilizers for quick and effective application in lawns and gardens! This all-purpose dispenser holds up to 40 oz. of Milky Spore powder. Dispensers are sold empty. Milky Spore powder sold separately (see page 21).

SUGGESTED USE: Fill dispenser tube and begin shaking dispenser while walking the area to be treated.



1216052 All-Purpose Dispenser Tube **\$14.50**

LAWN CARE

Nitron's Thatch Away

Want A "Thatch-Free" Lawn?

TARGET: Dry patchy spots, fungal disease and lawn scalping caused by excessive thatch arising from soil lacking balanced biological activity.

Description: Contains beneficial organisms that improve biological activity in soil, promoting the breakdown and conversion of grass clippings, organic matter, roots and thatch. Added iron, manganese, and zinc aid in seed germination, soil nutrition and lawn health.

SUGGESTED USE: Apply twice a year and for severe thatch apply three times the first year and twice a year thereafter.

For Mature Lawns: For applications with a hose end sprayer, use about 1 qt./2,500 sq. ft. With pressurized sprayer, add 1 qt./1 3/4 gallons of water in a 2 gal. sprayer. Water the treated area immediately.

For Re-Seeding: For a flat area, follow instructions for application and water after seeds are in place. For a sloped area, apply and water before placing seeds.

- 1388201** Nitron's Thatch Away - 1 Quart **\$16.00**
- 1388202** Nitron's Thatch Away - 1 Gallon **\$45.00**



For Lawn Grubs Use A Combination Of Milky Spore & Hb Beneficial Nematodes.

PRE-EMERGENTS

Sustâne® Spring Weed & Feed, 9-0-0

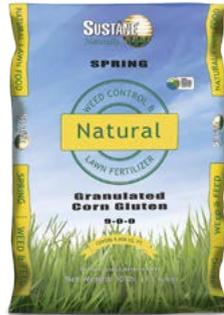


Prevent Weeds & Feed Your Lawn With This Organic Corn Gluten Meal.

TARGET: Barnyard grass, Bermuda grass, crabgrass, creeping bentgrass, curly dock, dandelions, foxtail, lambsquarter, pigweed, plantains, purslane, redroot bigweed, smart weed and more.

DESCRIPTION: This OMRI listed corn gluten meal works wonders in 2 ways: it is a natural broadleaf pre-emergent that suppresses weeds to prevent them from establishing and it provides high levels of nitrogen to green up already established plants and turf. For use as an herbicide, apply before germination of seeds. Should not be applied to new seedlings or when laying sod.

SUGGESTED USE: Apply 6 lbs. per 1,000 sq. ft. with a broadcast spreader. Provides 0.54 lbs. of nitrogen per 1,000 sq. ft. A 30 lb. bag covers up to 5,000 sq. ft. Apply up to 20 lbs. per 1,000 sq. ft. for enhanced weed prevention.



1226810 Sustâne Spring Weed & Feed - 30 lb. Bag **\$35.00**

BONIDE® Maize® Weed Preventer RTS



This Liquid Corn Gluten Stops Weeds Before They Can Germinate!

TARGET: Both perennial and annual grassy and broadleaf weeds.

DESCRIPTION: Use this NOP-compliant pre-emergent to keep lawns and gardens free of weeds. It will not harm your desirable plants; wait until they have an established root system and/or are 2-3 inches tall, then spray over and around them. This product prevents weed seeds from germinating and growing, but will not kill existing weeds. Those should be removed before spraying.

SUGGESTED USE: Apply product using hose-end applicator provided. It will accurately dilute the concentrate as it sprays. Apply in early spring to established turf or plants before weed germination. Apply in fall after summer heat stress has passed. Can be re-applied up to four times per growing season, or every 4-6 weeks. 32 oz. bottle covers 1,000 sq. ft.



1273018 BONIDE Maize Weed Preventer RTS - 32 oz. **\$14.99**
Cannot be shipped to the following states: DC

Gluten-8 OLP™ Liquid Corn Gluten, 1.5-0-0

This Easy-to-Use Liquid Weed Control Plus Nitrogen Works Wonders!

TARGET: Knockdown control for annual grasses and broadleaf weeds.

DESCRIPTION: Gluten-8 OLP Liquid Corn Meal offers pre-emergent weed control with 1.5% nitrogen to feed your soil. This product is derived from water soluble corn gluten meal, which provides effective and economical pre-emergent control of annual grasses and broad leaf weeds with much less effort than the granular corn gluten. Gluten-8 also contains 1.5% nitrogen (lower than granular corn gluten), which can help you manage nitrogen loads. All ingredients are EPA Section 25-B exempt. DO NOT use on grass that's been recently seeded; after the first mowing, apply at will. This 1 gallon bottle covers up to 4,000 sq. ft.



SUGGESTED USE: Greenhouses, agricultural crops, lawns, nursery stock, ornamentals, orchards, home gardens and more.

1273010 Gluten-8 OLP Liquid Corn Gluten, 1.5-0-0 - 1 Gallon **\$61.00**

SELECTIVE

BONIDE® Weed Beater® Fe RTU

Kill Just The Weeds, Not The Lawn!

TARGET: Selectively controls/suppresses broadleaf weeds, moss, lichens, algae and certain diseases growing in lawns.

DESCRIPTION: This product uses iron to kill the targeted plant – but not the grass – right down to the root within hours of application with no unpleasant odor. Some grass blades or thatch may darken slightly if contacted, but the grass will recover and not be harmed. You can enjoy your lawn as soon as the spray has dried. It's okay to re-seed 1 day after application and apply new grass in 1 week.



SUGGESTED USE: Do not dilute. Do not apply to drought-stressed grass or when daytime temps will exceed 85°F. Do not apply to bentgrass. Do not apply to newly seeded areas prior to grass seed germination. For best results, repeat treatment in 3-4 weeks, but don't apply to the same area more than 4 times a year (not including spot treatments).

1453790 BONIDE Weed Beater Fe RTU - 1 Quart **\$9.99**
1453791 BONIDE Weed Beater Fe RTU - 1 Gallon **\$28.99**

Cannot be shipped to the following states: CA, DC, MI

BROAD SPECTRUM

BioSafe Weed Control



This Soap-Based Weed Killer Produces Visible Results Within 24 Hours.

TARGET: For control and burndown suppression of annual & perennial broadleaf and grasses. Also controls spore producing plants such as mosses and liverworts.

DESCRIPTION: BioSafe Weed Control is a non-selective herbicide that works on contact when applied as a foliar application with a manual sprayer. For best results, cover plant leaves thoroughly and uniformly with spray. Take care to avoid contacting wanted plants. This soap product uses Ammonium Nonanoate to penetrate the cell walls of the plant to disrupt their normal functioning and cause death. This product does not move through the soil or between plants and leaves no harmful residue.

SUGGESTED USE: Do not apply this product through any type of irrigation system. Use a hand-held or hose-end sprayer that produces a uniform spray; this will cover the most leaf area for optimal weed control. A 10-13% volume to volume (V/V) dilution (13-16 fl. oz. per gallon of water) is recommended for most situations. Larger weeds, perennial weeds and some grasses may require several applications. Also available in a ready-to-use formulation.



1453821	BioSafe Weed Control - 32 oz. Concentrate	\$21.99
1453822	BioSafe Weed Control - 31 Gallon Concentrate	\$69.99

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	Avenger Weed Killer - 24 oz. RTU*	\$12.95
1453809	Avenger Weed Killer - 1 Quart Concentrate	\$25.00
1453810	Avenger Weed Killer - 1 Gallon Concentrate	\$80.00
1453812	Avenger Weed Killer - 5 Gallon Concentrate	\$330.00

*Cannot be shipped to the following states: DC, PR, SD, VI

Phydura™



Replace Toxic Herbicides With This Wonderful-Smelling Knock Down Spray.

TARGET: Unwanted leaves and grasses.

DESCRIPTION: OMRI listed Phydura uses clove oil and other biodegradable ingredients to quickly knock down and kill unwanted leaves and grasses. These ingredients work by adhering to the weed and breaking down the cell structure through a burn down process. After application, plants will begin to wilt in 30-60 minutes and be actively dying within 24 hours. Phydura is a non-selective herbicide, which means that all plants that come in contact with the spray will be affected. You will need to take extra care not to allow spray to contact non-target plants. Phydura will not translocate in the soil to the roots of desirable plants.

SUGGESTED USE: For younger, smaller plants mix with water at 3:1. For older, larger plants mix at 2:1. Re-treatment will be required for established perennials.

1453880	Phydura - 32 oz. Concentrate	\$17.49
1453882	Phydura - 1 Gallon Concentrate	\$45.99
1453884	Phydura - 2.5 Gallon Concentrate	\$84.50

Larger sizes available.



BONIDE® Burnout

Fast Acting Weed & Grass Killer!

TARGET: Unwanted grass and weeds.

DESCRIPTION: Uses natural citric acid and clove oil 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	BONIDE Burnout - 1 Quart Concentrate	\$21.00
1453776	BONIDE Burnout - 1 Gallon Concentrate	\$48.00
1453777	BONIDE Burnout - 2.5 Gallons Concentrate	\$99.00
1453778	BONIDE Burnout - 1 Quart RTU	\$11.50
1453779	BONIDE Burnout - PNS 1.33 Gallon RTU	\$42.00

RootShield® Plus Granules & RootShield® Plus WP



Use This 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	RootShield Plus Granules - 10 lb. Box	\$188.00
1332755	RootShield Plus Granules - 40 lb. Bag	\$415.00
1332756	RootShield Plus WP - 1 lb. Bag	\$118.00
1332757	RootShield Plus WP - 3 lb. Box	\$255.00

Granular cannot be shipped to: AK
WP cannot be shipped to: AK



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 ThermX™-70 Natural Wetting Agent (see page 39) in wet environments.

1332724	Cease - 1 Gallon	\$75.50
1332727	Cease - 2.5 Gallons	\$170.00
1332725	Cease - 1 Gallon, Case of 4	\$240.00
1332728	Cease - 2.5 Gallons, Case of 2	\$275.00



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 (see ThermX™-70 Natural Wetting Agent on page 39) 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



BONIDE® Revitalize® Biofungicide



Get Top To Bottom Disease Control With This NOP-Compliant Biofungicide/Bactericide.

TARGET: Blights, molds, rots, spots, mildews and more.

DESCRIPTION: Revitalize uses the power of a naturally occurring beneficial bacterium, *Bacillus amyloliquefaciens* strain D747, to control and suppress fungal and bacterial diseases in plants. This bacterium triggers the plant's immune response to fight off pathogens. It will also colonize plant roots, which prevents fungi and bacteria from establishing there. Can be used as a foliar spray and as a soil drench. You can apply indoors or outdoors, but should only use it as a soil treatment on indoor plants.

SUGGESTED USE: Application rate is 1 tsp./gal. of water. Spray directly on plants or into soil. Repeat as needed or every 7-10 days. For transplants: drench with approx. 4 fl. oz. and allow to soak in before transplanting. For lawns, 2-5 gals. of mixture is required for 1,000 sq. ft. of lawn.

1455130	BONIDE Revitalize - 16 oz. Conc.	\$14.99
1455135	BONIDE Revitalize - 32. oz RTU	\$12.99

Concentrate cannot be shipped to: AK, OR
RTU cannot be shipped to: CA, FL, NY, PA



Monterey Complete Disease Control



This OMRI Listed Biofungicide/Bactericide Works As A Spray Or As A Drench.

TARGET: For control or suppression of fungal and bacterial plant diseases such as blights, molds, spots, rots and mildews.

DESCRIPTION: The active ingredient in this OMRI listed, broad spectrum preventative biofungicide/bactericide is *Bacillus amyloliquefaciens* strain D747. When used as a soil drench, this naturally occurring bacterium goes straight to the plant's roots, where it will establish itself and grow. This colonization prevents the establishment of disease-carrying bacteria and fungi. When used as a foliar spray, this bacterium will overcome any pathogenic spores present. Can be applied up to and including the day of harvest.

SUGGESTED USE: Can be used as a spray to foliage and fruit or as a drench to plant roots. Spray application is recommended for those diseases affecting leaves, fruit and flowers—anything above ground. Drench application is recommended for diseases affecting roots, tubers or any other part that comes in contact with the soil. Mix 1 tsp. with a gallon of water (or use the ready-to-use formulation) and apply to houseplants, tropical plants, flowering plants, vegetables, shrubs, fruits, nuts and ornamental trees in residential landscapes, home gardens, and residential greenhouses.

- 1458203** Monterey Complete Disease Control - 32 oz. RTU **\$16.40**
- 1458200** Monterey Complete Disease Control - 8 oz. Conc. **\$13.00**
- 1458201** Monterey Complete Disease Control - 1 Pint Conc. **\$17.80**
- 1458202** Monterey Complete Disease Control - 1 Gallon Conc. **\$101.99**

Cannot be shipped to the following states: RTU (1458203): MO
8 oz. concentrate (1458200) and 1 pt. concentrate (1458201): MO, ND
1 gal. concentrate (1458202): NY



BONIDE® Liquid Copper Fungicide

Use For The Control & Prevention Of Many Fungal Diseases!

TARGET: Works as a knockdown control for the following: anthracnose, bacterial blight, bacterial leaf spot, black spot, *Botrytis*, brown rot, Cedar apple rust, citrus scab, downy mildew, fireblight, *Phytophthora*, powdery mildew, and scab.

DESCRIPTION: Liquid copper fungicide helps prevent and treat many diseases on a wide variety of trees and ornamental plants. Liquid Copper can be used on grapes, vegetables, fruit trees, berry bushes, roses, pine, cedars and more. For garden use only.

SUGGESTED USE:

- Mix ≈2-6 Tbs./gal. of water or 1 qt./100 gal. depending upon infestation.
- Repeat at 7-14 day intervals until harvest.
- Plant and crop-specific instructions included.

- 1455101** BONIDE Liquid Copper Fungicide - 16 oz. Conc. **\$16.45**

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



Monterey Liquid Copper Fungicide RTU



Utilize The Power Of Copper Octanoate To Control & Prevent Many Fungal Diseases.

TARGET: Use to control powdery mildew, black spot, downy mildew, late blight, rusts, leaf & fruit spot, fruit rot and leaf curl.

DESCRIPTION: This OMRI listed liquid copper fungicide provides effective control and prevention for a wide range of plant diseases in fruits, vegetables and ornamentals. This product acts a protectant to keep infection from the plant, so it is important to have it on all sides of every leaf, fruit or flower. You can use this in the dormant and growing season up to the day of harvest. You need no additional equipment with this product.

SUGGESTED USE: When using Monterey Liquid Copper Fungicide RTU, it is important to identify the type of disease you are treating in order to use the best method of disease control. For further information and aid in identifying problems, please refer to product label. 1 quart will treat approx. 10 sq. yards. Begin when disease first appears and repeat at 7-10 day intervals as needed. Re-apply after rain.

- 1455150** Monterey Liquid Copper Fungicide - 32 oz. RTU **\$13.70**

Cannot be shipped to the following states: AR, AZ, DC, IL, MD, MS, ND, NH, SC, WV, WY



BONIDE® Copper Fungicide Dust



This Organic Fungicide Works Great On Turf, Vegetables, Trees, Fruits & Flowers!

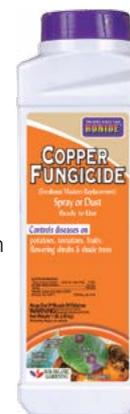
TARGET: Controls fungal and bacterial diseases such as anthracnose, powdery mildew, blights, downy mildew, rusts, leaf and fruit spots, fruit rot and leaf curl.

DESCRIPTION: This fungicide is made of 7% copper sulfate and is a modern take on the old Bordeaux Mix of copper sulfate and lime. Approved for use in organic gardening and on edibles, this formulation controls many fungal diseases, but is especially effective on peach leaf curl and blight diseases.

SUGGESTED USE: Intended for small garden use only. Control of diseases depends on thorough and complete application to both tops and the underside of leaves. Use lower rates when plants are small and higher rates when plants are well developed, during heavy periods of rain or when disease conditions are severe. Product label lists plant and disease specific application rates.

- 1455115** BONIDE Copper Fungicide Dust - 1 lb. **\$8.99**
- 1455120** BONIDE Copper Fungicide Dust - 4 lbs. **\$14.49**

Cannot be shipped to the following states: AK, CA



SuffOil-X®



OMRI Listed Pre-Emulsified Mineral Oil Suffocates Many Soft-Bodied Insects & Controls Certain Fungal Diseases.

TARGET: Aphids, adelgids, armored scales, mealybugs, cankerworms, *Eriophyid* mites, leafrollers, leafhoppers, leaf tiers, plant bugs, psyllids, soft scales, spider mites, whiteflies, webworms and rust and powdery mildew.

DESCRIPTION: Made with a highly refined pre-emulsified mineral oil, this suffocate creates the optimum in coverage with limited risk of plant damage. The pre-emulsified process used creates a lighter oil that dries faster, will not cause phytotoxicity, burn or undue stress, leaves no toxic residue on plants and dilutes easily with water.

SUGGESTED USE: Can be used with a wide variety of crops indoors or outdoors. Do not apply through any type of irrigation system (chemigation), during periods of drought, or when plants exhibit moisture stress. Apply when oil will dry and evaporate in 1-2 hours and when relative humidity is less than 90%. Don't spray in high wind or temps over 95°F. Application rates are generally 1-2 gallons of SuffOil-X per 100 gallons of water or 20-500 gallons of spray solution per acre.

1332805	SuffOil-X - 2.5 Gallons	\$62.00
1332806	SuffOil-X - Case of 2 ct./2.5 Gals.	\$112.00

Larger sizes available.

Shipping Restrictions: Cannot ship via US Mail or air shipping methods.

Cannot be shipped to the following states: AK, DC



Defender PM



You Can Use This Fungicide During Both Vegetative & Flowering Phases.

TARGET: Powdery mildew diseases caused by *Erysipales* fungi.

DESCRIPTION: This Citrus Oil based fungicide is made with food grade ingredients and will not persist on plant leaves. It works on contact to surround and smother *Erysipales* fungal spores and other powdery mildew pathogens. Use with your foliar regime to prevent and/or control outbreaks. Can be used in all growing methods and on all food crops.

SUGGESTED USE: Apply as a foliar spray. Heavy fungus: 200 ml/gal. Fungus issue: 150 ml/gal. Minor fungus issue: 120 ml/gal. Preventative and on clones: 100 ml/gal. Heavy issues may need repeat applications every 2-3 days, otherwise spray weekly.

1458120	Defender PM - 8 oz.	\$18.00
1458121	Defender PM - 16 oz.	\$37.00
1458122	Defender PM - 32 oz.	\$72.00
1458123	Defender PM - 64 oz.	\$135.00
1458124	Defender PM - 1 gal.	\$249.00
1458125	Defender PM - 5 gals.	\$1,090.00



Regalia®



OMRI Listed Control For Both Bacterial & Fungal Diseases.

TARGET: Powdery mildew, downy mildew, white mold, early blight, shot hole, *Fusarium*, bacterial spots and specks, brown rot, *Rhizoctonia* and more.

DESCRIPTION: This biofungicide uses a plant (*Reynoutria sachalinensis*) extract to protect crops from certain soil-borne or foliar diseases and to boost production by improving overall plant health. Regalia can be used in multiple application methods on field and edible crops in conventional, sustainable and organic production. Unique FRAC P₅ classification. 4-hour REI.

SUGGESTED USE: Use early for disease prevention and overall plant health and through the season for continued disease control. Small scale applications: 2 Tbsp./gal. of water. Foliar applications: Downy Mildew and White Mold: 2-4 qts/acre. Soil applications: *Fusarium*: 3-4 qts/acre.

1332970	Regalia - 2.5 Gallons	\$220.00
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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	BioSafe Disease Control - 32 oz. RTU	\$14.75
1222505	BioSafe Disease Control - 32 oz. RTS	\$20.99



The Power of Peroxyacetic Acid

Similar in chemical makeup, SaniDate 5.0 and OxiDate 2.0 are two very different products with very different uses.

SaniDate 5.0 is a no rinse required sanitizer for greenhouse use. Using a peroxy compound, SaniDate can quickly and effectively reduce harmful pathogens. Not only can this product be used on hard surfaces in the greenhouse, it can be used for equipment sanitation, food prep surfaces and also irrigation lines. It can also be used as a post-harvest sanitizer. Mix SaniDate in your dip tank or spray directly onto harvested fruits and vegetables to prevent the pathogens that cause spoilage. SaniDate is a great, environmentally responsible alternative to chlorine.

OxiDate 2.0 is a pre-harvest bactericide and fungicide. OxiDate can be used in certified organic and conventional agriculture. Not only does OxiDate help prevent plant pathogens, it works as a curative product by killing fungal spores and bacterial inoculum. OxiDate does not have a REI and can be used until harvest. This product can be tank mixed with fungicides and insecticides for extra protection and because of the active ingredient is peroxygen, there is not concern of resistance.

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	SaniDate 5.0 - 2.5 Gallons	\$155.50
1222517	SaniDate 5.0 - 5 Gallons	\$245.50

Larger sizes available. 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.



Vital Oxide



Kill Dangerous Bacteria & Viruses On All Surfaces.

TARGET: Kills MRSA, *Pseudomonas aeruginosa*, *Escherichia coli*, *Salmonella enterica*, *Staphylococcus aureus*, *Legionella pneumophila*, *Aspergillus niger*, norovirus, human immunodeficiency virus type 1 (HIV-1), *Enterobacter aerogenes*, *Listeria monocytogenes*, *Acinetobacter baumannii*, *Rotavirus*, H1N1 virus, hepatitis B, hepatitis C, *Klebsiella pneumoniae* and more.



DESCRIPTION: Vital Oxide uses chlorine dioxide to create a fast-acting, environmentally friendly, ultra-effective broad-spectrum antibacterial cleaner that provides odor elimination, allergen elimination, hospital disinfection, sanitation of food contact surfaces and mold/mildew removal and prevention. This product comes to you hospital-grade and ready-to-use or it can be diluted to fit your needs. It can be sprayed on, wiped on or used in a fogger. This EPA registered, non-corrosive cleaner will leave no strong odor or offensive taste.

SUGGESTED USE: Use full strength for heavy soil/filth, to disinfect hard non-porous surfaces, to prevent mold & mildew and to deodorize. Dilute for use on floors, carpets and food and non-food contact hard non-porous surfaces.

1457650	Vital Oxide - 3 oz. Spray	\$6.25
1457651	Vital Oxide - 3 oz. / Bundle of 3	\$16.50
1457652	Vital Oxide - 3 oz. / Bundle of 5	\$25.00
1457655	Vital Oxide -32 oz. (1 Quart) Trigger Sprayer	\$14.95
1457657	Vital Oxide - 128 oz. (1 Gallon)	\$45.95

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	OxiDate 2.0 - 2.5 Gallons	\$225.00
1222502	OxiDate 2.0 - 5 Gallons	\$360.00

Larger sizes available.

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

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



TRAPS & REPELLENTS

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	\$12.99
1255100	Repeater Multiple Catch Mouse Trap	\$14.99

The Smart Mouse Trap

A Humane 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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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.

1255005	Ultrasonic Rodent Repeller 3-Pack Single Plug-in Speaker	\$27.00
1255007	Ultrasonic Rodent Repeller 3 Speaker Plug-in	\$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	BONIDE Mouse Magic Mouse Repellent 4 Pack	\$9.00
1287711	BONIDE Mouse Magic Mouse Repellent 12 Pack	\$22.50

Cannot be shipped to the following states: DC, IN, KY, NM

BONIDE® Bat Magic



Rid Yourself Of Nuisance Bats Without Harming Them!

TARGET: Many species of bats.

DESCRIPTION: Use these convenient "place packs" to drive smelly, disease-carrying and destructive bats from most structures. While the peppermint and spearmint oils in these packs may smell pleasant to most humans, bats find them very irritating and will move away from them. Packs are biodegradable and ready to place.



SUGGESTED USE: For indoor use. Place, toss or tack where needed in attics, wall voids, chimneys, crawl spaces and other dark, confined spaces. Begin treatment with 1 pack per 150 sq. ft. Increase the number of packs as needed until the desired results are obtained. Once bats choose a place to roost, they will continue to return to the area. After bats depart, seal off any entrances to keep them from gaining re-entry.

1287715	4 RTU Place Packs	\$8.99
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Cannot be shipped to the following states: DC, IN, KY, NM



GOPHER & MOLE

Root Guard Gopher Wire Baskets

Stop Gophers From Damaging Plant Roots!

TARGET: Use to protect small planting areas, bulbs, flowers, shrubs, trees, lawns, raised beds, planter boxes, and entire garden areas.

DESCRIPTION: Designed to keep the smallest and most pernicious gophers from ruining your garden or lawn. Built from long-lasting 20-gauge, double galvanized metal.

SUGGESTED USE: Pull basket sides apart, flatten out bottom fold, bend side seams flat against bottom, round sides and place in a pre-dug hole. There is a 3" green strip indicating how deep to place the basket. Leave green edge exposed to help deter above ground feeding. Place plant in the basket, fill hole with soil, and water as usual. When selecting proper size, choose a basket that is one size larger to allow for plant growth.



1257200	Wire Mini Basket (Pack of 6)	\$6.72
1257201	Wire Mini Basket - 1 Gallon (Pack of 2)	\$7.50
1257202	Wire Mini Basket - 3 Gallon	\$7.00
1257203	Wire Mini Basket - 5 Gallon	\$9.00

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 19.5%, Sodium Lauryl Sulfate 4.5%.

Inert Ingredients: Corn Cob Granules 76%.

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	Chase Granular Mole & Gopher Repellent - 6 lbs.	\$23.50
1287901	Chase Granular Mole & Gopher Repellent - 32 lbs.	\$79.00



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%

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



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	BONIDE Repels-All Animal Repellent 1 Quart RTU	\$15.28
1287600	BONIDE Repels-All Animal Repellent 1 Quart Conc.	\$21.50

Cannot be shipped to the following states: IN, NM



CRAWLING INSECT CONTROL



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 developing pests! Safe for use around home and gardens! See pages 14-15 for more information.

ANT CONTROL

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** Monterey Ant Control - 1 lb. Shaker Can **\$7.49**
- 1257896** Monterey Ant Control - 2.5 lb. Jug **\$20.49**

Cannot be shipped to the following states: DC, MO, ND, NJ, VA, WA, WV



Ants

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** Orange Guard Fire Ant Control - 1 Gallon **\$32.75**

Cannot be shipped to the following states: AK, CO, DE, DC, ID, IL, IN, IA, KS, KY, ME, MD, MA, MI, MN, MO, MT, NE, NV, NH, NJ, NY, ND, OH, OR, PA, PR, RI, SD, UT, VT, VA, WA, WV, WI, WY

CRAWLING INSECT CONTROL

Orange Guard® Home Pest Control



Works Against A Broad Range Of Insects On Contact, Keeps Repelling For Weeks.

TARGET: Crawling pest insects.

DESCRIPTION: Orange Guard has proven effective 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** Orange Guard Pest Control - 32 oz. RTU Spray Bottle **\$10.97**
- 1460002** Orange Guard Pest Control - 1 Gallon with Sprayer **\$35.00**
- 1460003** Replacement Sprayer for 1 Gallon Orange Guard **\$5.30**

Harris Famous Roach Tablets



These Super Easy To Use Tablets Are Effective For A Long Time!

TARGET: Roaches, waterbugs, silverfish and ants.

DESCRIPTION: These tablets use Boric Acid, sugar, flour and a proprietary lure to create a food that insects crave. If kept dry, tablets can remain effective for several years. But, for best results, it's recommended that you replace tablets yearly. Contact with insect spray will negatively affect the performance of the tablets. One box can treat an entire house. Can be used in domestic and non-domestic settings (i.e., new construction).

SUGGESTED USE: Before placing tablets, clean up any leaks, cover any garbage or food and block any areas where roaches may be gaining entrance or hiding. Use no more than 12 per room. Place in cracks and crevices, under and behind appliances, in cabinets and in and underneath drawers. Any tablet visible after application must be pressed into cracks and crevices or removed.



1219550 Harris Famous Roach Tablets - 6 oz. **\$6.25**

BONIDE® Home Safe™ Household Insect Killer



Don't Let The Pleasant Scent Fool You – This Is A Powerful Insecticide & Repellent!

TARGET: Ants, crickets, flies, gnats, spiders, earwigs, midges, mites, millipedes, moths, silverfish, stink bugs, water bugs and more.

DESCRIPTION: This versatile spray is made from fragrant botanical oils (citronella, clove & cedar) that will kill pest insects on contact and repel on surfaces. Because it is water-based, there's no greasy residue. Use indoors in kitchens, pantries, basements, under sinks and behind appliances. Use outdoors along the foundation, around window frames/doorways, along eaves and around vents and utility line entry points.

SUGGESTED USE: No mixing required. Turn nozzle to ON position and hold spray container 10-12" away from surface. Spray directly on insects (contact as many insects as possible) and to areas where insects are found or normally occur. Spray until thoroughly wet but not soaking. Repeat as needed.



1460010 Home Safe Household Insect Killer - Quart RTU **\$9.99**

1460020 Home Safe Household Insect Killer - Gallon RTU **\$22.99**

Perma-Guard™ Crawling Insect Control



An OMRI Listed Diatomaceous Earth Insecticide That Really Does The Job!

TARGET: Any crawling or hopping pest insect.

DESCRIPTION: Perma-Guard Crawling Insect Control is Diatomaceous Earth mixed with amorphous silica. D.E. is the crushed fossilized shells of microorganisms; this fine dust clings easily to whatever passes through it. When an insect comes into contact with this dust, it proves fatal. The D.E. absorbs the waxy cuticle around the insect body, which causes it to dehydrate and die in as little as 48 hours. This physical method of killing eliminates the possibility of insects becoming immune to the insecticide, as can be the case with chemical controls. With regular applications of this OMRI listed product, you will receive continued protection.

SUGGESTED USE: Apply with a hand duster, power duster or as slurry to areas where insects are found. Avoid introducing into the air. Dust insects directly, if possible.

1218250 Perma-Guard Crawling Insect Control - 2 lb. Bag **\$10.15**

1218260 Perma-Guard Crawling Insect Control - 5 lb. Bag **\$18.35**

Case sizes available.

Cannot be shipped to the following states: AK, CO, HI, LA, ME, MD, MA, MS, NJ, NC, OH, OK, PA, RI, SD, TN, UT, WV, WI, WY



EcoPCO® AR-X Multi-Purpose Insecticide

Quick Pest Knockdown In A Gentle Botanical-Based Formula!

TARGET: Ants, carpet beetles, carpenter ants, carpenter bees, centipedes, chocolate moths, clover mites, cockroaches, crickets, drugstore beetles, earwigs, elm leaf beetles, fleas, millipedes, pillbugs, power post beetles, scorpions, silverfish, spiders, termites, *Trogoderma* beetles and wood wasps.

DESCRIPTION: This Pyrethrin-based, multi-purpose insecticide is designed for use in sensitive areas and is approved for use in food handling areas like homes, hospitals, commercial kitchens, daycare centers, restaurants and food processing facilities. This unscented contact kill product is non-staining and contains no PBO or CFCs. Can be used inside and out, with the outside applications limited to direct applications to vegetation, foundations and crack and crevices. Not for exterior aerial applications.

SUGGESTED USE: Apply to cracks and crevices; release approximately 1 second of product per crack-crevice application and from 2-3 seconds per cubic foot of closed void space. For wood pests, locate infestation and drill holes 8-10" into insect tunnels and inject 5-10 seconds per hole. Apply more liberally for heavy infestations. Ensure contact with as many insects as possible.

1457403 EcoPCO® AR-X Multi-Purpose Insecticide **\$17.99**

Ships via Ground ONLY.



For More Crawling Pest Control Solutions, Visit arbico-organics.com

Perma-Guard™ Crawling Insect Control



An OMRI Listed Diatomaceous Earth Insecticide That Really Does The Job!

TARGET: Any crawling or hopping pest insect.

DESCRIPTION: Perma-Guard Crawling Insect Control is Diatomaceous Earth mixed with amorphous silica. D.E. is the crushed fossilized shells of microorganisms; this fine dust clings easily to whatever passes through it. When an insect comes into contact with this dust, it proves fatal. The D.E. absorbs the waxy cuticle around the insect body, which causes it to dehydrate and die in as little as 48 hours. This physical method of killing eliminates the possibility of insects becoming immune to the insecticide, as can be the case with chemical controls. With regular applications of this OMRI listed product, you will receive continued protection.

SUGGESTED USE: Apply with a hand duster, power duster or as slurry to areas where insects are found. Avoid introducing into the air. Dust insects directly, if possible.

1218250 Perma-Guard Crawling Insect Control - 2 lb. Bag **\$10.15**

1218260 Perma-Guard Crawling Insect Control - 5 lb. Bag **\$18.35**

Case sizes available.

Cannot be shipped to the following states: AK, CO, HI, LA, ME, MD, MA, MS, NJ, NC, OH, OK, PA, RI, SD, TN, UT, WV, WI, WY



Essentria™ G Granular Insecticide

A Granular That Handles A Handful Of Outdoor Pests!

TARGET: Ants, bermudagrass 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. **\$67.50**



Beneficial Nematodes

Combo packs of NemaAttack™ & NemaSeek™ Beneficial Nematodes are your #1 defense against eggs and developing stages of fleas outdoors. Use these two varieties of beneficial nematodes for your most comprehensive control. **See pages 13-15 for more information.**



INDOOR FLEA & TICK CONTROL

Electronic Flea Trap

Great Indoor Flea Control!

TARGET: Monitors and captures fleas.

DESCRIPTION: Each capture pad lasts for approx. three months or until filled with up to 10,000 fleas. Excellent flea control without toxic chemicals! Light and heat attracts fleas 24 hours a day and 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 dog's size.

1280101	Flea Trap - 1 Unit	\$17.50
1280103	Flea Trap - 1 Unit (Bundle of 3)	\$45.00
1280102	Capture Pads (3 Pack)	\$6.50
1280106	Capture Pads 3 Pack (Bundle of 3)	\$18.75



Flea 'n Tick B Gone™

Fast Acting & Easy-To-Use!

TARGET: Owners wanting natural flea control for their 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	Flea 'n Tick B Gone - 16 oz. RTU	\$17.98
1452502	Flea 'n Tick B Gone - 1 Gallon	\$63.00



For More Flea & Tick Control Solutions, Visit arbico-organics.com



REVENGE® Pantry Moth Trap

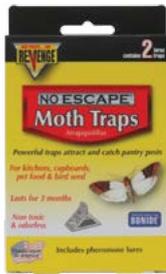
This Pantry Moth Trap Uses Pheromone Lures To Attract The Moths & Trap Them!

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	\$6.10
1280303	Revenge Pantry Moth Trap - 2 Per Pack/Pack of 3	\$17.25
1280304	Revenge Pantry Moth Trap - 2 Per Pack/Pack of 6	\$31.50
1280305	Revenge Pantry Moth Trap - 2 Per Pack/Pack of 12	\$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	BioCare Clothes Moth Trap	\$8.35
1260703	BioCare Clothes Moth Trap - Pack of 3	\$23.25
1260704	BioCare Clothes Moth Trap - Pack of 6	\$42.00
1260705	BioCare Clothes Moth Trap - Pack of 12	\$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	\$7.89
1257401	Build-Your-Own Ant Killer Kit	\$5.40



BioCare® Cockroach Traps

Powerful Attractant Lures Cockroaches!

TARGET: Cockroaches.

DESCRIPTION: Uses a powerful natural attractant to lure roaches onto a sticky glue surface.

SUGGESTED USE: Should be placed along baseboards, under sinks, and near water pipes in warm, dark areas near a food supply. Each trap covers approximately 25 sq. ft. and will last for 2 months.

1260201	BioCare Cockroach Traps - 6-Pack	\$8.00
1260202	BioCare Cockroach Traps - (2) 6-Packs	\$14.75
1260203	BioCare Cockroach Traps - (4) 6-Packs	\$26.00



BioCare® Window Fly Trap

A Clear, Pesticide-Free Way To Catch Flies.

TARGET: Multiple species of flies.

DESCRIPTION: This trap will capture flies in your windows, where they are drawn by the heat and light. These unobtrusive, clear sticky traps work as a bright spot on the window to attract the fly's attention and ensnare them.

SUGGESTED USE: Remove narrow strip release paper, attach to window and then remove front release paper quickly. Replace when full or every 3 months.

1280601	BioCare Window Fly Trap - 4-Pack	\$4.75
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Clothes Moth

For More Household Pest Control Solutions, Visit arbico-organics.com

BED BUG CONTROL

Avenger® Natural Bed Bug Killer™ - RTU

Works Within Minutes To Kill All Life Stages Of Bed Bugs!

TARGET: Bed bugs (*Cimex lectularius*)

DESCRIPTION: This spray uses a base of natural plant extracts (clove and peppermint oils) to quickly and efficiently kill bed bugs in every life stage – adults, nymphs and eggs. This will knock out multiple generations to help prevent future infestations.

SUGGESTED USE: Thorough coverage of all areas where bed bugs hide is key to their control. Vacuum areas of suspected insect activity and then spray on all surfaces – even those around beds, such as floor cracks, bed frames, nearby wood surfaces, crevices in wooden furniture and baseboards. Spray entire mattress and box spring. Redo application in 2 weeks. Heavy infestation may take a third application. This 24 oz. bottle is adequate to treat a small bedroom once.



1888815 Avenger Natural Bed Bug Killer - 24 oz. RTU **\$21.50**

J.T. Eaton™ Kills Bedbugs & Crawling Insect Powder

This Diatomaceous Earth Product Kills Bedbugs And Other Crawling Insects Within Days.

TARGET: Bedbugs, ants, Boxelder bugs, cockroaches, crickets, fire ants, fleas, flies, millipedes, mole crickets, silverfish, sowbugs, ticks and more.

DESCRIPTION: The food grade D.E. in this product should prove fatal to nearly any insect that comes in contact with it. It is composed of finely milled fossilized shells and has many microscopically fine, sharp edges that tear up an insect's exoskeleton. This causes them to dehydrate and die. As long as the D.E. stays dry, it will remain effective.

SUGGESTED USE: Can be used inside and outside. Do not puff the product into the air. Squeeze container and apply light puffs to places where there's insect activity and in surrounding areas. These include: mattresses, upholstered furniture, cracks in crevices in furniture and floors, pet resting areas, under decks and porches, around garbage cans, under sinks, in drains, etc. Repeat as needed.



1219303 J.T. Eaton Kills Bedbugs - 7 oz. Puffer **\$6.99**
1219305 J.T. Eaton Kills Bedbugs - 7 oz. Puffer/Case of 12 **\$69.00**

EucoClean®



This 3-in-1 Spray Kills Pest Insects, Cleans Surfaces & Is An Excellent Air Purifier/Deodorizer.

TARGET: Bed bugs, dust mites, fleas, lice, ants, moths and more.

DESCRIPTION: Australian Eucalyptus oil is the key to the success of this product. Not only will it smother bed bugs and other insects, this essential oil has antibacterial, antimicrobial and antifungal properties. Eucalyptus oil also has a fresh scent that will leave almost anywhere smelling better. 100% DEET-free and biodegradable, EucoClean is made with food grade coloring and is septic safe.

SUGGESTED USE: Insects: Spray 12" away directly over desired area. Allow the area to dry, then clean. Repeat once a week for preventative maintenance.

Surface cleaning: Spray directly on dirty area and allow 1 minute to activate, then wipe dry. Hard to clean areas can be scrubbed with a non-scratch brush.

Floors: Dilute 1 oz. per 20 oz. of water. **Air Freshening:** Spray about 3 squirts directly into filter or internal air intake when A.C. is on.



1219580 EucoClean - 750 ml. **\$17.00**
1219585 EucoClean - 750 ml./Case of 12 **\$170.00**

Bed Bug Killer



This Liquid Insecticide Contains Diatomaceous Earth As A Residual Deterrent.

TARGET: All stages of bed bugs.

DESCRIPTION: This ready-to-use spray utilizes a group of powerful ingredients to eliminate bed bugs on contact and create a lasting deterrent. Castor oil (with glycerol) coats and suffocates, citric acid burns through an insect's outer membrane, Diatomaceous Earth slices up and dehydrates (and stays on a surface residually) and the sodium lauryl sulfate works as a surfactant to keep the spray on the insect. Bed Bug Killer does not stain and can be used on multiple surfaces.

SUGGESTED USE: Spray directly on bedbugs and the areas where they may hide. Treat furniture and beds once a week. May be used outdoors in colder climates, but the product should be 60°F or warmer before use.



1280810 Bed Bug Killer - 32 oz. RTU **\$14.99**
1280811 Bed Bug Killer - 1 Gal. RTU **\$39.99**

BED BUG CONTROL

Hygea Natural Bed Bug & Lice Exterminator



Use These Stain & Scent Free Products To Rid Yourself Of Bed Bugs & Keep Them Away!

TARGET: Bed bugs, dust mites, fleas, lice and ticks.

DESCRIPTION: Formulated with naturally occurring enzymes and no animal products or by-products, you can be comfortable using this residue-free product regularly.

And because bedbugs can live up to a year between feedings, you will want to be proactive by spraying as often as every day for prevention. Use with the laundry treatment for a perfect 1-2 punch.

SUGGESTED USE: Spray a light mist on linens, pillows, mattresses, box springs, headboards, furniture, carpets and other surfaces where bed bugs may hide. Do not saturate, a light mist is sufficient.



Hygea Natural Bed Bug & Lice Exterminator Laundry Treatment

DESCRIPTION: This laundry additive gives you the power to wash away pests that can cling to clothing, linens, towels, rugs, drapes, furniture covers and other washable fabrics. Use routinely as a preventative treatment or as part of an active eradication effort. Can be used with or without regular laundry detergent.

SUGGESTED USE: Add 1 oz. directly to wash load. Wash with warm or hot water (unless fabric manufacturer's instructions explicitly state that cold water should be used). Repeat if necessary.

- 1219600 Bed Bug & Lice Exterminator - 3 oz. **\$5.99**
- 1219602 Bed Bug & Lice Exterminator - 24 oz. **\$11.99**
- 1219605 Bed Bug & Lice Exterminator - 1 gal. **\$39.99**
- 1219610 Bed Bug & Lice Laundry Treatment - 32 oz. **\$12.99**
- 1219612 Bed Bug & Lice Laundry Treatment - 32 oz./Case of 12 **\$75.60**



Bed bug

Harris Bed Bug Killer



This OMRI Listed D.E. Product Is Effective Against So Much More Than Bed Bugs!

TARGET: Bed bugs, fleas, cockroaches, silverfish, ants, Asian lady beetles, boxelder bugs, cluster flies, carpet beetles, millipedes, centipedes, crickets, earwigs, slugs and more.

DESCRIPTION: Effective against bed bug adults, nymphs and hatchlings, this powder is also a potent weapon against other indoor and outdoor pests and those that travel in between, like fleas, crickets and ants. Virtually any insect that crawls through or jumps into this powder will suffer fatal damage to its exoskeleton, causing dehydration and death. This powder is odorless and non-staining and will remain effective for months, as long as it is kept dry and undisturbed.

SUGGESTED USE: Apply to cracks and crevices in dry areas by dusting with suitable equipment such as Insecticide Puffer (available online). Apply lightly and uniformly. Dust insects directly if possible and repeat treatment regularly. Spot treatments should not exceed 2 sq. ft. Amount of product to use should be in the range of 1-5 oz./100 sq. ft.



- 1219500 Harris Bed Bug Killer - 8 oz. Puffer Bottle **\$8.00**
- 1219501 Harris Bed Bug Killer - 32 oz. Powder **\$12.00**
- 1219502 Harris Bed Bug Killer - 64 oz. with Duster **\$16.29**

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.

- 1250105 ClimbUp Original - 4 Pack **\$15.20**
- 1250106 ClimbUp Original - 12 Pack **\$45.60**

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