

ARBICO *organics*™

Providing Organic Solutions For Growers Since 1979

Early Spring Catalog 2018

Natural Products For Your Organic Garden, Farm and Livestock!



- Beneficial Insects
- Beneficial Nematodes
- Biorational Insecticides
- Fly Control
- Frost Protection

- Mycorrhizae & Soil Amendments
- Pest Insect Traps & Lures
- Predatory Mites & Parasites
- Seed Starting & Soil Prep
- Weed & Disease Control



Horse & Livestock

ARBICO Organics is your source for total fly control. From our signature product, Fly Eliminators™, to insect repellents for horses and livestock, we have what you need to manage flies, odors and more.

See Pages 32-35 for details.



Gardening & Agriculture - Beneficial Insects, Mites & Organisms

Beneficial insects and organisms are a key component to any IPM program. ARBICO Organics has a wide line of beneficial and predatory insects to control many common garden and farm pests, such as crop damaging aphids and mites. See pages 3-10.

We also offer a line of traps for monitoring and trapping. See Pages 13-15.

Call one of our specialists to make sure you are getting the best solution to your pest problem.



Gardening & Agriculture - Amendments & Biostimulants

The most successful growing begins in the soil. Feed your plants the nutrients they need and support strong growth with amendments and Root Build 240, our high spore mycorrhizal fungi. See Pages 39-43.

Test your soil before planting to determine soil needs. See page 38.



GENERALISTS

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

1112525	≈1,500	≈800 sq. ft.	\$12.95
1112511	≈4,500	≈2,500 sq. ft.	\$22.50
1112512	≈9,000	≈5,000 sq. ft.	\$29.00
1112513	≈18,000	≈10,000 sq. ft.	\$43.00

Call For Availability. Overnight Shipping Required

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



Hippodamia convergens

Praying Mantids - *Tenodera aridifolia*

Don't Be Fooled, Their "Praying" Front Legs Are Actually Designed To Grasp Prey!

Target: Aphids, leafhoppers, mosquitoes, caterpillars and other soft-bodied insects when young. Adults will eat beetles, grasshoppers, crickets and other pest insects.

Description: Shipped in their egg cases, each egg contains ≈200 baby mantids. Mantids can be used in conjunction with other beneficials. Beware, they will eat other beneficials if pests are not available.

Suggested Use (Depending upon level of infestation): Begin releases during early Spring. Attach egg cases to branches of shrubs, trees or other plants at a notch between the trunk or stem and offshoot branch. Egg cases can also be attached with wire or twist ties. Do not place on the ground as they are easy prey for ants. Mantids can also be hatched inside a paper bag when kept in a warm place. Upon hatching, release immediately to avoid cannibalism.

Temperature: Moderate: 70-90°F **Relative Humidity:** Low-High ≈40-95%

1121000	1 Egg Case w/o Twigs	\$4.95
1121001	3 Egg Cases w/o Twigs	\$13.48
1121101	10 Egg Cases w/o Twigs	\$41.15

Shipped US Mail

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



Tenodera aridifolia

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

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

Relative Humidity: 30-50%

Release Rate: Every 7-10 days

1110001	≈1,000 Eggs	\$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**



Chrysoperla rufilabris, *Chrysoperla sp.*

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	
≈1-3/sq. ft., 100/Tree	
Gardens & Greenhouses	
≈200-500/Acre	

Larvae & Adults Require OVERNIGHT Shipping

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

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

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

Assassin Bug - *Zelus renardii*

These Voracious Ambush Predators Will Stay In Your Garden & Devour A Wide Variety Of Pest Insects!

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



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

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

Temperature: 55-110°F **Relative Humidity:** 10-75%

Please call for availability.

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: 70-90°F **Relative Humidity:** High Humidity

1117001	≈500	\$79.00
1117003	≈1,000	\$108.00
1117004	≈2,000	\$205.00

Overnight Shipping Required

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

SPECIALISTS - APHID CONTROL

Aphid Predator - *Aphidoletes aphidimyza*

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



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: 64-75°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



Aphidius ervi

SPECIALISTS - WHITEFLY CONTROL

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.



Encarsia formosa

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 **\$32.50**

1132002 ≈3,000 **\$46.00**

1132003 ≈5,000 **\$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 - *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.



Eretmocerus eremicus

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

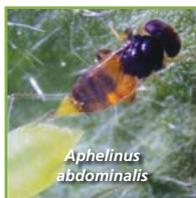
Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

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 (*Sitobian avenae*), and alfalfa aphids (*Acyrtosiphon pisum*).



Aphelinus abdominalis

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: Hot 68-80°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

BENEFICIAL INSECTS & MITES

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.

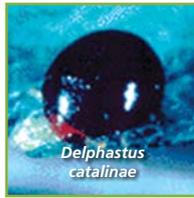
SUGGESTED USE (Depending upon level of infestation): Upon arrival, release at sundown. May be stored at temperatures between 50-60°F for 1-2 days. Can be combined with other whitefly parasites.

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

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

Overnight Shipping Required

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



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): 500-1,000/acre every 2 weeks, 2-3 releases. Use indoors and outdoors. Weekly release programs are available. Please call for more information.

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

1151204	≈2,000	\$35.00
1151205	≈4,000	\$52.00
1151206	≈6,000	\$66.50
1151207	≈10,000	\$102.50

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

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

1101323	200 Mini Sachets w/Hooks	\$152.00
1101321	1 Bag (≈125,000)	\$425.50
1101322	6 x 328 ft. Strips of Sachets	\$600.00

Overnight Shipping Required

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



Mite Predator - *Amblyseius swirskii*

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

TARGET: Western flower thrips (*Frankliniella occidentalis*), onion thrips (*Thrips tabaci*), broad mites (*Polyphagotarsonemus latus*), hemp russet mites (*Aculops cannabicola*) glasshouse whiteflies, (*Trialeurodes vaporariorum*), tobacco whiteflies (*Bemisia tabaci*) 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 nighttime temperatures are at least 60°F. Not recommended for use on infestations on tomato crops. Colonies of predators are shipped inside specially designed sachets containing approximately 250 predators. The sachets allow for controlled release, continued predator emergence, are water resistant and can be used indoors/outdoors and with overhead irrigation. Sachets will be active for ≈2-4 weeks depending on infestation level and predator establishment.

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

1101312	1 Tube (≈25,000)	\$68.20
1101311	1 Bag (≈125,000)	\$270.00
1101314	6 x 328 ft. Strips of Sachets	\$450.00
1101315	1,000 Mini Sachets w/Hooks	\$467.00

Overnight Shipping Required

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



BENEFICIAL MITES

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 subside.

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

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

Overnight Shipping Required

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



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:** No higher than 60%

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

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

1151203	≈1,000	\$38.50
1156301	≈5,000	\$80.00
1156401	≈10,000	\$142.00

Overnight Shipping Required

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



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	\$144.00
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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.

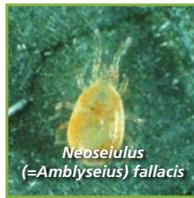
SUGGESTED USE (Depending upon level of infestation): Good for cold climates! Use preventatively; over-winters and sustains on pollen. Release at the start and end of the season. Use ~1,000 per 4,500 sq. ft or 10,000 per acre.

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

1151401	≈1,000	\$39.95
1151402	≈2,000	\$52.00
1151403	≈5,000	\$86.75
1151404	≈10,000	\$152.00

Overnight Shipping Required

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



Neoseiulus (=Amblyseius) fallacis

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	\$79.00
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Overnight Shipping Required

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



Stethorus punctillum

SPECIALISTS

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

SPECIALISTS

Mexican Bean Beetle Parasite - *Pediobius foveolatus*

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

TARGET: Mexican bean beetles (*Epilachna varivestis Mulsant*).

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



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

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

1102002	20 Mummies	\$117.00
1102201	80 Mummies	\$359.00

Overnight Shipping Required

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

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

For Indoor Control Of Soil Dwelling Pests!

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

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



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

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

1101330	1 Tube (~500 Adults)	\$67.50
1101332	1 Bag (~3,000 Adults)	\$170.00

Overnight Shipping Required

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

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

These Beneficial Mites Consume Vast Quantities Of Thrips.

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

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

1152204	≈50,000	\$38.50
1152205	≈100,000	\$73.70
1152206	≈250,000	\$119.95
1152201	200 Sachets	\$79.00

Overnight Shipping Required

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

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

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

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



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

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

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

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

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): 500-1,000/acre every 2 weeks, 2-3 releases. Use indoors and outdoors. Weekly release programs available. Please call.

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

1114702	≈100 Adults	\$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



Cryptolaemus montrouzieri

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 and reproduction.

Temperature: Moderate 58-90°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



Anagyrus pseudococci

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

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

Overnight Shipping Required

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



Rhyzobius (=Lindorus) lophanthae

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	\$27.00
1122002	≈25,000	\$57.00
1122003	≈50,000	\$109.00

Overnight Shipping Required

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



Aphytis melinus

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

Natupol Bumblebee Hives



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

TARGET: For use indoors in greenhouses and hoopouses 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 9 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, VA

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 infested 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 SUPPLEMENTS



Introduction to Beneficials Kit

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

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

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

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

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

1000000 Introduction To Beneficials Kit **\$52.00**

Cannot be shipped to the following states: HI, PR

SAVE OVER \$15.00

Predalure™

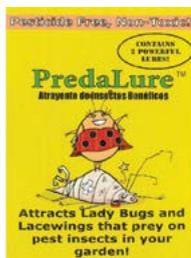
Attract Ladybugs, Green Lacewing & Many Other Beneficial Insects Into Your Garden With Predalure.

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

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

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

1231319 Predalure - 2 Pack Lures **\$9.25**
1231322 Predalure - 10 Lures **\$43.00**
1231321 Predalure - 25 Lures **\$90.00**



ARBICO Organics™ Good Bug Power Meal

Beneficial Insect Attractant & Food.

TARGET: Attract and sustain beneficial insects and butterflies.

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

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

1133001 Good Bug Power Meal - 1/2 lb. Bag **\$6.50**
1133002 Good Bug Power Meal - 1 lb. Bag **\$11.50**



ARBICO Organics™ Good Bug Blend

Flowering Beneficial Insect Habitat – Good for People, Too!

TARGET: Help keep your beneficial insects from flying away.

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

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

1134000 Good Bug Blend - 1/2 lb. Bag **\$5.95**
1134001 Good Bug Blend - 1 lb. Bag **\$9.75**
1134002 Good Bug Blend - 10 lb. Bag **\$67.95**
1134003 Good Bug Blend - 50 lb. Bag **\$289.00**



Monterey Lady Bug Attractant

Attract Beautiful & Beneficial Ladybugs!

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

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

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

1281605 Lady Bug Attractant - 3 Lures Per Pack **\$11.50**



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



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



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

PEST INSECT TRAPS

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 Assorted Sticky Traps

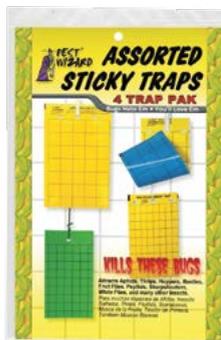
Try This Assortment To Find The Best Sticky Trap For You!

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 (5½" 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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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

Stiky™ Plant Stakes

Knock Out Those Pesky Little Fliers Around Your Plants!

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

*Larger quantities available.



Tanglefoot® Tangle-Trap® Sticky Coating



Create New Traps Or Re-Use Old Ones 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



Stiky Stuff Sticky Coating

Ready To Use, Simply Re-Coat Old Traps Or Create New Ones!

TARGET: General flying insect pests. Use pheromone or other attractants for specific species.

DESCRIPTION: A specially prepared insect trapping adhesive for use on your new or re-used trap. This adhesive will grab any insect that flies or crawls too close and will stay sticky until covered with insects or other foreign objects. When making new traps, almost any non-porous material such as waxed cardboard, glass, wood, plastic sheets or milk cartons will do. Traps can be placed in gardens, greenhouses, yards, orchards and fields but attach to stakes, or suspend them, to avoid accidental contact with children or pets.

SUGGESTED USE: Apply a thin 1/16" (1.6 mm) coating to surface of trap. For best results, observation and experimentation are recommended. 8 oz. can comes with brush applicator.

1259600	Stiky Stuff Adhesive	\$11.75
1259601	Stiky Stuff Adhesive - Pack of 2	\$21.50
1259602	Stiky Stuff Adhesive - Pack of 3	\$31.50
1259603	Stiky Stuff Adhesive - Pack of 4	\$40.00



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.



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 on page 55**), 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.

Easily Apply Beneficial Nematodes With The Chameleon Adaptable Hose End Sprayer. See Page 55.

NEMATODE VARIETY GUIDE – Choose Variety By Pest

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

For information about termite control, please call.



Beneficial Nematodes

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

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

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



OMRI Listed Beneficial Nematodes

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



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

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

Hb = *Heterorhabditis bacteriophora*
 Sf = *Steinernema feltiae*
 Sc = *Steinernema carpocapsae*

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 - Wednesday; excluding holidays.

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

SLUG & SNAIL CONTROL

Sluggo®



Wipes Out Slugs & Snails!

TARGET: Snails and slugs.

DESCRIPTION: Made from a mix of biodegradable wheat gluten attractant and naturally occurring iron phosphate, this product will help control pest snails or slugs. Once consumed, it interferes with calcium metabolism which inhibits feeding and causes death in about 3-6 days.

SUGGESTED USE: Apply about 0.5-1 lb./1,000 sq. ft. or 20-40 lbs./acre.

1271109 Sluggo 2.5 lb. Jug

\$15.75

1271104 Sluggo 40 lb. Bag

\$138.95

Larger quantities available.



Garden Snail

Sluggo® Plus



Save Your Plants From Slugs!

TARGET: Kills earwigs, cutworms, sowbugs (roly poly), pillbugs, crickets, slugs and snails.

DESCRIPTION: This easy-to-use pellet formula kills insects, slugs and snails outdoors. Contains Spinosad, created from the soil bacterium, *Saccharopolyspora spinosa*, that is toxic to a variety of insect pests and other pests, including slugs. Use on vegetable gardens, fruit trees, lawns, flowers, shrubs and non-commercial greenhouses.

SUGGESTED USE: Apply bait on the soil around/close to the targeted plants at a ratio of $\approx 1/2$ -1 lb./1,000 sq. ft.; Wet ground before applying bait; do not use more than 3 times in a 30-day period; do not apply within 3 days of harvest; best when applied in the evening.

1271114 Sluggo Plus 2.5 lb. Jug

\$22.75

1271116 Sluggo Plus 10 lb. Jug

\$66.50



BONIDE® Slug Magic

Control Slugs With This Easy-To-Use & Convenient Size Of Iron Phosphate.

TARGET: Slugs.

DESCRIPTION: This is a biodegradable product that consists of a naturally occurring mineral – iron phosphate. Once slugs or snails ingest Slug Magic, they stop eating and die within days. It can be used in fruit and vegetable gardens up to the day of harvest.

SUGGESTED USE: 1 lb. treats 1,000 sq. ft., the pellets remain active for 2 weeks – rain or shine.

1271101 Slug Magic - 1 lb.

\$13.75

Cannot be shipped to the following states: DC, PR



Slug Saloon

This Will Be A Slug's Last Drink!

TARGET: Slugs.

DESCRIPTION: Use this rugged, low-maintenance trap for years of effective slug control. The food-grade malted barley bait is child & pet safe but irresistible to slugs, who are lured in by the smell and drown in the broth. Each bait lasts for 30 days. Trap comes with one bait, measuring spoon and instructions.

SUGGESTED USE: Either place on or sink into the ground one trap for every 10 sq. ft. Bait should be emptied and refilled every 3-4 days.

1272003	Trap w/1 Month Bait Supply	\$7.45
1272012	2 Traps plus 4, 3-Month Baits	\$35.00
1272013	5 Traps plus 10, 3-Month Baits	\$80.00
1272014	10 Traps plus 20, 3-Month Baits	\$153.00
1272009	1, 3-Month Bait Refill	\$7.75
1272010	5 Pack, 3-Month Bait Refill	\$36.25
1272011	10 Pack, 3-Month Bait Refill	\$67.50



Snailer Snail & Slug Trap

One Way In & No Way Out For Snails!

TARGET: Snails, slugs, earwigs & sowbugs.

DESCRIPTION: The special design of this trap will last for years and keeps water and debris out but entices destructive snails and slugs in. You can be comfortable using this trap around children and pets – its bait is chemical-free and natural. Each bait lasts for approximately 30 days. Trap comes with one bait, measuring spoon and instructions.

SUGGESTED USE: For maintenance purposes, use one per 400 sq. ft.; for heavy infestation, use one per 10 sq. ft.

1272001	Trap w/1 Month Supply of Bait	\$11.25
1272004	2 Traps plus (4) 2-Month Baits	\$42.55
1272005	5 Traps plus (10) 2-Month Baits	\$99.00
1272006	10 Traps plus (20) 2-Month Baits	\$190.00
1272002	1 2-Month Bait Refill	\$7.75
1272007	Pack of 5 2-Month Bait Refills	\$36.25
1272008	Pack of 10 2-Month Bait Refills	\$67.50



BIOLOGICAL GRUB CONTROL

NemaSeek™ Hb Beneficial Nematodes

Beneficial Nematodes are one of nature's most powerful weapons available for ending 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 16-17 for more information.**

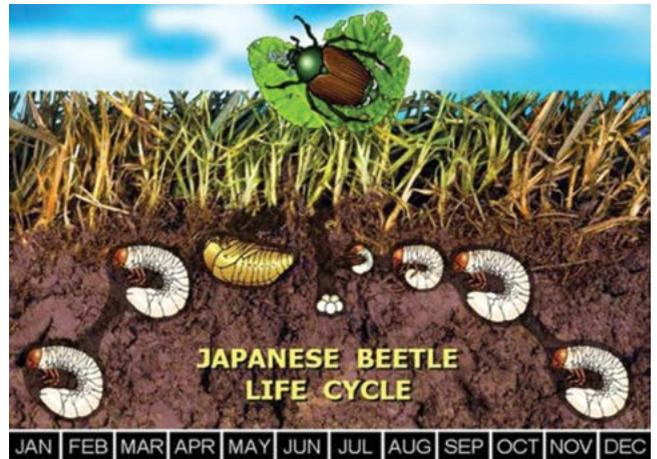


Photo Credit: UNL Entomology Department

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 Beneficial Nematodes (see pages 16-17), 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 55). 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, 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, should be applied 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 | \$45.00 |
| 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.



GRASSHOPPER CONTROL



Semaspore Bait™



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

TARGET: Grasshoppers

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



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

1215001	Semaspore Bait - 1 lb. Bag	\$20.25
1215005	Semaspore Bait - 5 lb. Bag	\$46.60
1215055	Semaspore Bait - 50 lb. Bag	\$107.00
1215060	Semaspore Bait - 1 Pallet* (20-50 lb. Bags)	CALL

*Call for freight quote.

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

Nolo Bait

Put An End To Destructive Grasshoppers & Crickets!

TARGET: Grasshoppers and mormon crickets.

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



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

1160000	Nolo Bait - 1 lb. Bag	\$21.00
1160001	Nolo Bait - 5 lb. Bag	\$51.00
1160002	Nolo Bait - 10 lb. Bag	\$78.00
1160003	Nolo Bait - 25 lb. Bag	\$122.00

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

Garlic Barrier®

Protect Your Plants With Garlic!

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

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

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



1452602	Garlic Barrier - 1 Quart	\$11.99
1452603	Garlic Barrier AG+ - 1 Gallon	\$73.80

Call for larger sizes.



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



Gypsy Moth caterpillar



Moth Egg Parasites - *Trichogramma spp.*

Caterpillars are perhaps the most devastating pest of garden crops, devouring many times their weight. Moth Egg Parasites can be used to help control these devastating populations. They work by parasitizing the eggs of the caterpillars before they emerge. We have 4 species available to control over 200 pests including borers, webworms, loopers, cutworms and more. Timing your release is important. [See page 8 for more information.](#)

Monterey B.t.



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

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

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

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

1201210	Monterey B.t. Concentrate - 1 Pint	\$12.50
1201211	Monterey B.t. Concentrate - 1 Quart	\$19.75
1201212	Monterey B.t. Concentrate - 1 Gallon	\$70.00

Cannot be shipped to the following states: ND, WY



Monterey Garden Insect Spray Concentrate



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

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

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



PHEROMONE TRAPS & LURES

Lures By Pest

For best results, place traps prior to infestation. Use 1 trap per acre or less, 2-4 traps per 1-10 acres, 4-6 traps for 40-60 acres. For more than 100 acres, use 1 trap per 20 acres. For mass trapping, use 1-4 traps per acre or more depending upon cash value of plants. **For our full selection of pheromone traps and lures in larger sizes or volume, or for lure pricing, please call 1-800-827-2847 or visit arbico-organics.com.**

Common Name	Scientific Name	Wing/Delta/LPD/GM	Common Name	Scientific Name	Wing/Delta/LPD/GM
Almond Moth	<i>Cadra cautella</i>	W, D, LPD	Lesser Peachtree Borer	<i>Synanthedon pictipes</i>	W, LPD
Armyworm	<i>Pseudaletia unipuncta</i>	W, LPD	Nantucket Pine Tip Moth	<i>Rhyacionia frustana</i>	D
Beet Armyworm	<i>Spodoptera exigua</i>	W, LPD	Obliquebanded Leafroller	<i>Choristoneura rosaceana</i>	W, LPD
Blueberry Leafroller	<i>Sparaanothis sulfureana</i>	D	Orange Tortrix	<i>Argyrotaenia citrana</i>	W, LPD
Cabbage Looper	<i>Trichoplusia ni</i>	W, LPD	Oriental Fruit Moth	<i>Grapholita molesta</i>	W, LPD
Clearwing Borers:			Peach Twig Borer	<i>Anarsia lineatella</i>	W, LPD
Banded Ash Borer	<i>Podosesia aureocincta</i>	W, LPD	Pink Bollworm	<i>Pectinophora gossypiella</i>	D
Peachtree Borer	<i>Synanthedon exitiosa</i>	W, LPD	Pitch Pine Moth	<i>Rhyacionia vigidana</i>	D
Rhododendron Borer	<i>Synanthedon rhododendri</i>	W, LPD	Redbanded Leafroller	<i>Argyrotaenia velutinana</i>	W, LPD
Codling Moth - 10x	<i>Cydia pomonella</i>	W, LPD	San Jose Scale	<i>Quadraspidiotus perniciosus</i>	W
Cranberry Gridler/Sod Webworm	<i>Chrysoteuchia topiaria</i>	W, LPD	Sequoia Pitch Moth	<i>Synanthedon sequoiae</i>	W
European Corn Borers:			Southern Armyworm	<i>Spodoptera eridania</i>	W, LPD
Iowa Strain	<i>Ostrinia nubilalis</i>	W	Southwestern Pine Tip Moth	<i>Rhyacionia neomeicana</i>	W, LPD
New York Strain	<i>Ostrinia nubilalis</i>	W	Spodoptera Sunia	<i>Spodoptera sunia</i>	W
Fall Armyworm	<i>Spodoptera frugiperda</i>	W	Spruce Budworm	<i>Choristoneura fumiferana</i>	D
Fruittree Leafroller	<i>Archips argyrospilus</i>	W	Squash Vine Borer	<i>Melittia cucurbitae</i>	W, LPD
Gypsy Moth	<i>Lymantria dispar</i>	D, GM	Viburnum Borer	<i>Synanthedon viburni</i>	W, LPD
Indian Meal Moth	<i>Plodia interpunctella</i>	W	Western Bean Cutworm	<i>Loxagrotis albicosta</i>	W, LPD

Wing Trap

You'll Get Options & Economy With This Trap!

TARGET: A wide variety of insects/ Lepidopteran pests.

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



1230440	Scentry Wing Trap - Pack of 5	\$19.00
1230441	Scentry Wing Trap - Pack of 10	\$35.00

Large Plastic Delta Trap

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

TARGET: A wide variety of insects/ Lepidopteran pests.

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



1230435	Large Plastic Delta Trap - Pack of 5	\$35.00
1230436	Large Plastic Delta Trap - Pack of 10	\$66.50
1230505	5 Replacement Liners	\$7.00
1230510	10 Replacement Liners	\$11.50

Delta Trap

Catch Those Pests With Ease!

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

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



1230426	Delta Trap - Pack of 10	\$21.50
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Gypsy Moth Trap

Moth Pests Disappear With This "Milk Carton" Trap!

TARGET: Adult male gypsy moths.

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



1230430	Gypsy Moth Trap - Pack of 5	\$10.45
1230431	Gypsy Moth Trap - Pack of 10	\$18.99

Monterey Horticultural Oil



Functions As A Fungicide, Insecticide & Miticide!

Target: Spider mites, eriophyid mites, armored scale, soft scale, mealybugs, psyllids, whiteflies, aphids, leafrollers, leafhoppers, webworms, cankerworms, plant bugs, leafhoppers and adelgids.

Description: Made from mineral oil, this product coats egg, larval and nymph stages, causing suffocation. In addition, it functions as a fungicide as it will interfere with a fungal pathogen's ability to attach to a host plant.

Suggested Use: Can be used year-round on ornamentals, roses, vegetables, citrus, small fruits, tree fruits, and nuts. Best when applied during dormancy. During growing seasons, apply until day of harvest. Use about 2.5-5 Tbsp. oil/1 gal. water. For trees, use approximately 3-4 gal. solution/tree. For citrus, apply about 8-15 gal. solution/tree. For various fruits, vegetables, and ornamentals use about 1-2 gal. solution/1,000 sq. ft. See label for crop specific rates and instructions.



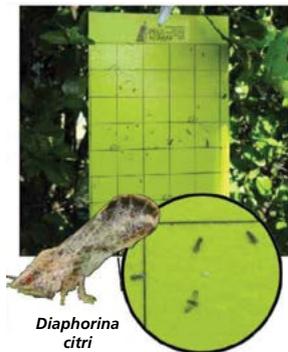
1257920	Monterey Horticultural Oil -1 Pint	\$10.25
1257921	Monterey Horticultural Oil -1 Quart	\$13.50
1257922	Monterey Horticultural Oil -1 Gallon	\$35.00
1257923	Monterey Horticultural Oil - 32 oz. RTS	\$17.00

Asian Citrus Psyllid (ACP) Detector

Closely Monitor Your Citrus To Fight The Spread Of Deadly Disease.

TARGET: Asian Citrus Psyllid (ACP)

DESCRIPTION: Since its discovery in the U.S. in 1998, the Asian Citrus Psyllid (ACP) has been devastating to citrus crops across the country. The ACP spreads the deadly bacterium *Candidatus Liberibacter asiaticus* that causes fatal Huanglongbing (HLB) disease in all varieties of citrus and some ornamentals of the *Rutaceae* family. Once an insect pierces a diseased plant to feed, they too become infected with the bacterium. It's not harmful to the insect, so they have the potential to lethally infect a limitless number of trees in their 1-2 month lifespans. Closely monitoring of your citrus is essential to bring this plague under control. *Should you discover the ACP on your citrus, it is imperative that you contact your local county extension office or neighborhood garden center.*



SUGGESTED USE: Hang trap and lure about head high, outside of foliage. Since these sticky traps will most likely be full of insects before the lure life ends, you have the option of using one lure per trap and changing out the lures once the trap is full or spacing lures between traps. The easy-to-twist dual wire hangers will keep your traps secure wherever you put them.

1254220	ACP Detector - 4 Pack (4 Traps, 8 Hangers)	\$10.99
1254221	ACP Kit - (1 Lure, 2 Traps, 2 Hangers)	\$15.99
1254222	ACP Lure - 1 Pack	\$8.99

Monterey Fruit Tree Spray Plus



OMRI Listed Spray Combining Pyrethrins & Neem Oil Used As Insecticide, Fungicide & Miticide.

Target: Powdery mildew, downy mildew, rusts and leaf spot; aphids, spider mites, whiteflies, loopers, leafminers and more.

Description: Monterey Fruit Tree Spray Plus is a natural control spray for many common pest insects and plant diseases, such as powdery mildew, downy mildew, rusts and leaf spots. A mixture of pyrethrins and 70% Neem Oil ensures that Monterey Fruit Tree Spray Plus is fast-acting when sprayed on your plants up until the day of harvest.

Suggested Use: Concentrate: Mix 2 tablespoons of Monterey Fruit Tree Spray Plus per gallon of water and thoroughly apply to all leaf surfaces including the undersides of the leaves. **RTS:** Attach to a hose with water access and follow spraying directions on the label.



1257930	Fruit Tree Spray Plus - 1 Pint	\$17.00
1257932	Fruit Tree Spray Plus - 1 Quart	\$31.50
1257931	Fruit Tree Spray Plus - 1 Pint RTS	\$18.95

BONIDE® All Seasons Horticultural & Dormant Spray Oil

Control Overwintering Eggs Of Insect Pests With This Light-Weight Concentrated Oil.

TARGET: Aphids, bean thrips, leafhoppers, scale, codling moths, fungus gnats, whiteflies, mealybugs, mites, psyllids and spider mites.

DESCRIPTION: This oil-based concentrate can be used as a growing season spray, dormant spray (no leaves) or delayed dormant (green tip) spray to control overwintering eggs and other insects. Highly recommended for use on fruit trees, shade trees, shrubs, ornamentals, roses and vegetables. Light enough to use anytime of the year.

SUGGESTED USE: Dilute 2-8 oz per gal. of water depending upon infestation. Apply every 7-14 days as needed. Apply enough liquid per plant to wet entire surface. Give special attention to underside of the leaves and nooks and crannies on the trunk and stems. Will not stain. Plant and crop-specific instructions are included.



1274101	BONIDE Horticultural Spray Oil - 16 oz.	\$10.25
1274102	BONIDE Horticultural Spray Oil - 32 oz.	\$12.05
1274104	BONIDE Horticultural Spray Oil - 1 Gallon	\$36.97
1274105	BONIDE Horticultural Spray Oil - 1 Case (4 Gal.)	\$117.00

Ships via Ground ONLY.

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



Mycotrol® ESO

A WSDA Registered *Beauveria bassiana* Insecticide In A Convenient Liquid.

TARGET: Orthoptera species, whiteflies, aphids, thrips, psyllids, mealybugs, leafhoppers, borers, foliage-feeding Lepidoptera, leaf-feeding beetles, Scarab beetles, Heteroptera species, weevils and more.

DESCRIPTION: Mycotrol ESO has the same *Beauveria bassiana* as Mycotrol WPO, but in a liquid emulsifiable suspension formula. Both products give you exceptional insect control that exceeds or equals any chemical insecticide. With the wide range of crops and sites that this product can be used on, and the fact that it is effective in all stages of an insect's life, you will find it to be versatile and cost effective. Can be used up to the day of harvest with a 4-hour REI (Restricted Entry Interval), which is just about the length of time for it to dry on a plant.

SUGGESTED USE: Mix well to form an emulsion. Apply using hand-held, ground and/or aerial spray and low volume application equipment. Make applications at the lowest height that is safe to reduce exposure of droplets to evaporation and wind. Spray to wet, but avoid run-off. Typically, it takes 7-10 days after the first spray to see control.

1332781	Mycotrol ESO - 1 Quart	\$99.00
1332782	Mycotrol ESO - 1 Gallon	\$370.00

*Case sizes available.



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 & BotaniGard® 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.



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



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



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.

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

Monterey 70% Neem Oil



Effective Against Indoor & Outdoor Insect Pests & Fungal Diseases!

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

DESCRIPTION: Insecticide/Miticide Use:

Controls spider mites, aphids, whiteflies, scale, beetles, leafrollers and other insect pests.

Fungicide Use:

Effective against powdery mildew, black spot, downy mildew, anthracnose, rust, leaf spot, *Botrytis*, needle rust, blights and *Alternaria*.

SUGGESTED USE: Insecticide/Miticide Use:

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

1555615	Monterey 70% Neem Oil - 32 oz. RTU Spray Bottle	\$12.50
1555614	Monterey 70% Neem Oil - 1 Pint Concentrate	\$19.90

RTU (1555615) cannot be shipped to the following states: ND, WY



SNS 209 All Natural Systemic Pest Control Concentrate



This NOP Compliant Insecticide Works From The Inside Out To Provide Long-Lasting Control.

TARGET: For use against spider mites, whiteflies, fungus gnats, thrips, root aphids, scales and more.

DESCRIPTION: This unique product formula contains rosemeric acid, a derivative of the rosemary plant, that the plant will uptake and spread throughout its structure. The presence of this acid in the plant cells forms a barrier that insects find distasteful. Once a feeding insect comes in contact with the rosemeric acid, they retreat and look for a more suitable food source. Contact with rosemeric acid can be fatal depending on the size of the pest affected and that pest's maturity. SNS 209 stays in the plant's leaves, stems and roots and can't be diluted by the elements. This provides complete protection for all parts of the plant.

SUGGESTED USE: This product may be used as a foliar spray or as a root drench. Use daily or every few days until it begins working in 1-2 weeks. It will be effective for up to 3 weeks. Discontinue use once it starts working and then reapply every 14-28 days as needed. Do not overuse.

1459100	SNS 209 Systemic Concentrate - 1 Pint	\$24.00
1459102	SNS 209 Systemic Concentrate - 1 Gallon	\$110.00



AzaMax™



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

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

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

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

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

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

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

2000121	AzaMax - 4 oz.	\$25.00
2000122	AzaMax - 16 oz.	\$62.00
2000123	AzaMax - 32 oz.	\$99.00



Insect Annihilator



A Clever Combination Of Oils Is The Secret Weapon In This Annihilator!

TARGET: Aphids, gnats, whiteflies, mites and more.

DESCRIPTION: Insect Annihilator utilizes rosemary, thyme, clove and cinnamon oils to suffocate and repel many common pest insects. This product can be used either as a root drench or a foliar spray. However, you will get maximum effectiveness if you use it both ways. Insect Annihilator can be used in all growing media and mixes easily for spraying. This PH balanced insecticide can be watered in with your nutrients and is effective for preventative applications as well as for major infestations.

SUGGESTED USE: As a root drench: For a light infestation, use 10 ml/gal. of chlorine-free water; for heavy infestations, use 20 ml/gal.

As a foliar spray: For IPM, PM, Clones: 100 ml/gallon. For minor pest infestation/heavy PM: 160 ml/gal. For pest infestation: 240 ml/gal. For heavy pest infestation: 300 ml/gal.

For heavy infestations with either application method, repeat applications may be required with 2-3 day intervals.

1458100	Insect Annihilator - 8 oz. Concentrate	\$20.00
1458101	Insect Annihilator - 16 oz. Concentrate	\$39.00
1458102	Insect Annihilator - 32 oz. Concentrate	\$76.00
1458103	Insect Annihilator - 64 oz. Concentrate	\$149.00



AzaGuard®



This OMRI Listed Product Works On A Wide Range Of Ornamental, Forestry, Food & Non-Food Crops.

TARGET: For controlling and repelling over 300 listed insect species, including aphids, beetles, armyworms, fungus gnats, leafhoppers, caterpillars, mealybugs, webworms, plant parasitic nematodes and root knot nematodes.

DESCRIPTION: Azadirachtin, extracted from the neem tree, is the active ingredient here. Insects are repelled by the taste and smell of neem, but azadirachtin also works as a molting/growth disruptor. This Insect Growth Regulator (IGR) disrupts the life cycle between larval, pupal and nymphal stages by impeding the metabolism of ecdysone. Ecdysone is necessary for molting, without which the insect cannot mature into its next growth stage and will, ultimately, die. NOP Compliant.

SUGGESTED USE: Apply using a power or pump sprayer or a hand-held trigger type sprayer. Spray when pests first appear and repeat at 5-7 day interval as required. A sticker agent may be added to product for more complete coverage on waxy or pubescent plant surfaces. Do not exceed the rate of 22.5 fl. oz. (20 g.) per acre per application.

1222205	AzaGuard - 32 oz. - Case of 4	\$530.00
1222207	AzaGuard - 1 gal. - Case of 2	\$1,000.00



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

Call for case pricing.



Monterey Take Down Spray

A Mix Of Pyretherins & Canola Oil For Affordable, Effective Insect Control!

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

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

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

1257915	Take Down Garden Spray Concentrate - 1 Pint	\$15.25
1257917	Take Down Garden Spray RTU - 1 Quart	\$10.98

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



PyGanic® 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 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



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



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 (D.E.) mixed with crystalline 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**

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 16-17 for more information.



Electronic Flea Trap

Great Indoor Flea Control!

TARGET: Monitors and captures fleas.

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



BIOLOGICAL CONTROL

Quick Kill Mosquito Bits®

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

TARGET: Mosquitoes and Fungus Gnats

DESCRIPTION: Quick Kill 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	Quick Kill Mosquito Bits - 8 oz.	\$10.95
1211136	Quick Kill 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.

This product cannot be shipped to the following states: NY

REPELLENTS

BONIDE® Mosquito Beater Granules



Simply Sprinkle These For Lasting Mosquito Relief!

TARGET: Mosquitoes.

DESCRIPTION: Made from biodegradable essential oils, these granules can be sprinkled right from the container for mosquito control wherever you need it (although it is not for aquatic use). It takes only 1 hour for this lovely smelling repellent to be effective and then it will retain its efficacy for 3 weeks. If treating larger areas, allow a longer period prior to occupancy.



SUGGESTED USE: Rainfall, temperature and wind may affect effectiveness. For optimal results, apply in the early evening in dry conditions with little or no wind. Broadcast directly from the container or apply with a lawn spreader, dust gun or a hand crank duster (available online). Reapply as needed.

- 1211305 Mosquito Beater Granules - 8 oz. (Treats 1,500 sq. ft.) **\$8.99**
- 1211310 Mosquito Beater Granules - 1.3 lbs. (Treats 4,000 sq. ft.) **\$14.29**

BONIDE® Mosquito Beater WSP



Just Drop And Go For Mosquito Control!

TARGET: Mosquitoes, gnats & black flies

DESCRIPTION: Bonide Mosquito Beater WSP provides the larvicide, *Bacillus thuringiensis v. israelensis* (Bti), to kill developing mosquitoes in areas of standing water. Bti is fatal to mosquito larvae when they ingest it (thus preventing them from growing into adults), but will not harm fish, amphibians or other organisms. Simply drop the pouches in those areas where mosquitoes are breeding. As the pouches dissolve, the Bti will be spread throughout the water. This product can be used in a wide range of sites and is effective even in stagnant, polluted or algae-covered water. Your treatment should last 7-14 days. In areas where there are healthy numbers of mosquito larvae present, your mosquito control may last much longer as another generation has been prevented.



SUGGESTED USE: Place directly on the surface of the water. Water pouches will dissolve and release the bti-coated granules. Not for use in NY state waters or finished water that's intended for human consumption. Re-apply every 7-14 days as needed.

- 1211315 BONIDE Mosquito Beater WSP - 24 Pouches **\$12.49**
- 1211320 BONIDE Mosquito Beater WSP - 80 Pouches **\$28.69**

This product cannot be shipped to the following states: DC

Mosquito Barrier®

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

TARGET: Mosquitoes, gnats and fleas.

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



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

- 1211001 Mosquito Barrier - 1 Quart **\$24.50**
- 1211002 Mosquito Barrier - 1 Gallon **\$79.90**

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

Mosquito Magician



An Essential Oil-Based Product That Offers 3-in-1 Mosquito Control.

TARGET: *Aedes Aegypti* mosquitoes, gnats, no-see-ums and other biting, flying insects.

DESCRIPTION: Mosquito Magician is a liquid, highly concentrated product that suffocates larvae in the standing water where they breed, kills adult mosquitoes on contact and repels for up to 2 weeks in a single treatment. Made with a combination of citronella, cedar, lemongrass, garlic, geraniol and rosemary oils, Mosquito Magician sprays in a very fine mist for maximum coverage and control. Mosquito Magician has been tested on the *Aedes aegypti* mosquito and was shown to have a 98% mortality rate and an 83% long term repellency rate from just one application. This is the mosquito that carries the Zika, West Nile and Chikungunya viruses, as well as malaria and dengue fever.



- You can order the Mosquito Magician as a concentrate and use your own method of dispersal or you can purchase a pint or quart that comes with a battery sprayer.

SUGGESTED USE: 1 pint treats up to 16,000 sq. ft.; 1 qt. treats up to 32,000 sq. ft. and 1 gal. treats up to 128,000 sq. ft.

- 1211140 Mosquito Magician - 16 oz. Concentrate **\$24.49**
- 1211141 Mosquito Magician - 32 oz. Concentrate **\$39.99**
- 1211142 Mosquito Magician - 1 Gallon Concentrate **\$99.99**
- 1211143 Med-sized Battery Sprayer w/1 Pint Concentrate **\$39.99**
- 1211144 Large-sized Battery Sprayer w/1 Quart Concentrate **\$79.99**

PERSONAL

BiteBlocker® Herbal Repellents

Protection From Biting Pests! "DEET Free"

BiteBlocker Insect Repellent Spray

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

DESCRIPTION: This effective spray is safe to use on every member of your family and will last up to 3 hours. For optimum protection, re-apply every 2 hours. Contains soybean and geranium oils, plus inert ingredients.



BiteBlocker Xtreme Insect Repellent

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

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

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

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| 1211815 | BiteBlocker Herbal Insect Repellent Spray - 4.7 oz. | \$7.99 |
| 1211819 | BiteBlocker Xtreme Insect Repellent - 6 oz. | \$8.98 |

Chig-R-Blok

Take Back Your Yard —
Make The Outdoors Fun Again!

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

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



- DEET free formula is made with cherry kernel, shea, almond, apricot, neem, karanja, hemp and pumpkin seed oils. It also contains geranium, carrot, patchouli, rosemary, frankincense, lemongrass, lavender, mint and myrrh essential oils.
- Water-resistant and can last 4-8 hours (depending on perspiration).
- Can be used for humans, dogs and horses. Not for cats.

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

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

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

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| 1212006 | Chig-R-Blok - 2 oz. Balm | \$9.99 |
| 1212005 | Chig-R-Blok - 2 oz. Oil | \$11.50 |
| 1212004 | Chig-R-Blok - 4 oz. Oil | \$16.00 |

Bug Bam!® Wristbands, Camp Grids & Pet Tags



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

TARGET: Mosquitoes, fleas and ticks.

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



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

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| 1211700 | Bug Bam! Mosquito Band - 2 Per Pack | \$9.00 |
| 1211809 | Bug Bam! Mosquito Grid | \$9.70 |
| 1211811 | Bug Bam! Mosquito Pet Tags | \$10.70 |
| 1211703 | Bug Bam! Mosquito Band - 2 Per Pack - 10 Pk. Combo | \$52.00 |
| 1211704 | Bug Bam! Family Pack & Furry Friends | \$63.00 |
| 1211705 | Bug Bam! Family Pack | \$53.00 |
| 1211702 | Bug Bam! Mosquito Band - 2 Per Pk. - Case of 24 | \$110.50 |

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

Bug Protector Spray Repellent - Mosquitoes



Don't Let Mosquitoes Ruin Your Outdoor Life!

TARGET: Mosquitoes, gnats and other insects.

DESCRIPTION: Mosquitoes can make any outing miserable and carry many serious diseases. This Deet-free spray repellent uses lemongrass, geranium, peppermint and cinnamon essential oils to provide full protection without the nasty smell, stickiness and harmful ingredients of toxic bug sprays. Mosquito-borne diseases are not limited to people; there are a number of potentially fatal diseases that affect animals and Bug Protector works just as well for animals it does for people. It has been formulated so that you can apply the spray directly to your pet's fur for thorough protection. In addition to the Spray Repellent, we offer Bug Protector Spray Pen Repellent and the Bug Protector Balm Stick Repellent. These are ideal for taking your bug protection with you wherever you go.



SUGGESTED USE: Thoroughly spray product on exposed skin or pet's fur and allow to dry without wiping. Reapply as needed.

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| 1212020 | Bug Protector Spray - Mosquitoes - 2 oz. | \$2.99 |
| 1212021 | Bug Protector Spray - Mosquitoes - 4 oz. | \$4.99 |
| 1212022 | Bug Protector Spray - Mosquitoes - 8 oz. | \$6.99 |
| 1212026 | Bug Protector Spray Pen - Mosquitoes - 2 Pack | \$3.99 |
| 1212028 | Bug Protector Balm Stick - Mosquitoes - 2 Pack | \$3.48 |

FLY ELIMINATORS



WHAT ARE FLY ELIMINATORS?

The Sensible Alternative To Pesticides

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

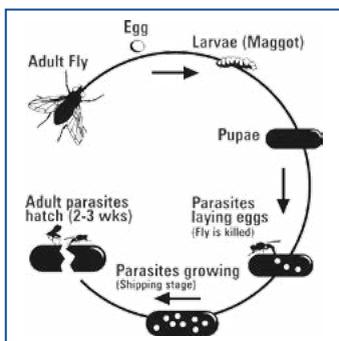


Adult Fly Eliminator emerging from fly pupa.

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

HOW DO FLY ELIMINATORS WORK?

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



Life cycle of the fly parasite.

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

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

Philadelphia Park Recommends ARBICO's Fly Eliminators

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



– Roy Smith, Former Track Manager of Philadelphia Park

WHO USES FLY ELIMINATORS?

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

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

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



HOW DO I USE FLY ELIMINATORS?

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

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



Fly Eliminators and wood shavings in packaging.



Use Your Fly Eliminators the RIGHT Way:

RIGHT Time

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

RIGHT Place

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

RIGHT Amount

- The more Fly Eliminators, the fewer the flies

RIGHT Schedule

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

Churchill Downs Chooses ARBICO Organics

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

– Butch Lehr, Former Track Manager of Churchill Downs



CHURCHILL DOWNS

Del Mar Thoroughbred Club Relies On ARBICO Organics

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

– Joe Harper, Chief Executive Officer of Del Mar



SPECIAL PRICING

HOW TO ORDER:
Call **1-800-827-2847** or
visit **www.arbico-organics.com**

Only \$18.95

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

Number of Horses/Animals	Suggested Units†	Special Early Bird Pricing
1	1/4 Unit	\$15.95
2 - 5	1/2 Unit	\$18.95
6 - 10	1 Unit	\$28.95
11 - 15	1 1/2 Units	\$38.95
16 - 20	2 Units	\$50.95
21 - 25	2 1/2 Units	\$62.95
26 - 30	3 Units	\$72.95
31 - 35	3 1/2 Units	\$82.95
36 - 40	4 Units	\$90.95
41 - 45	4 1/2 Units	\$99.95
46 - 50	5 Units	\$100.95
51 +	Please Call 1-800-827-2847	

Order Your Fly Control Program Today!
Early Bird Offer Expires April 30, 2018.

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.

†These are units of measurement, not warranties or guarantees of performance. The total seasonal cost of Fly Eliminators depends on the recommended number of shipments which may be different than what competitors may recommend. We recommend releasing a shipment every 2-4 weeks throughout the fly season, but releases ranging from 1-6 weeks are not uncommon. Customer experiences may vary. The quantity required and frequency of application can differ according to region, size and condition of property or stables, severity of fly problem, neighbors, manure management, number of animals and start date of program. All warranties, express or implied are disclaimed. One unit bag shown. © 2018 Arizona Biological Control, Inc.

MANURE MANAGEMENT

EM•1® Microbial Inoculant

Increase & Maximize Your Plants' Absorption Of Nutrients!

TARGET: Accelerate decomposition & reduce odors.

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

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

1202099	EM•1 Microbial Inoculant - 12 oz.	\$25.00
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
1202104	EM•1 Microbial Inoculant - 55 Gallons*	CALL

*Call for freight quote.

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



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.

1202702	SCD Odor Away - 1 Liter	\$13.50
1202703	SCD Odor Away - 1 Gallon	\$43.00

Call for case pricing.



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.

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 17 for free shipping details.

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



Fly Maggots

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



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

Espree® Aloe Herbal Horse Spray

Contains A Natural Sunscreen!

TARGET: Repel and kill flies and other insect pests.

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

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

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

1108901	Espree Aloe Herbal Horse Spray - 1 Quart Conc.	\$25.00
1108902	Espree Aloe Herbal Horse Spray - 1 Gallon Conc.	\$74.50



ARBICO Organics™ Solar Fly Trap

FREE SHIPPING

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

Volume Pricing!

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

Replacement part 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



All Seasons Indoor Composter® Kit

Kick Your Compost Into High Gear & Get The Stink Out!

TARGET: Food scraps, yard wastes and other organic matter for composting and soils lacking microbial activity.

DESCRIPTION: All Seasons Indoor Composter is an easy way to recycle food waste into a compost soil conditioner in shorter time than traditional composting. Use with All Seasons Bokashi for accelerated composting through anaerobic fermentation. Great for use indoors and in smaller environments.



Bokashi Ingredients:

Wheat Bran, Rice Bran, Purified and Structured Water, Sugar Cane Blackstrap Molasses and Mineral Rock Salt. May contain wood shavings.

SUGGESTED USE:

Household Applications: Sprinkle an initial layer of All Seasons Bokashi in the bottom of the composter. Add food scraps and coat with Bokashi. Repeat until full. Keep lid closed to ensure fermentation.

1202730	SCD All Seasons Bokashi - 2.2 lb. Bag	\$13.95
1202731	SCD Indoor Composter Kit (Bucket & Bag)	\$43.95

EM•1® Rice Bran Bokashi

Make Foul Odors Go Away!

Target: Smelly kitchen scraps destined for the compost.

DESCRIPTION: "Bokashi" is Japanese for "fermented organic matter". Made with certified organic rice bran, Super C EM-X Ceramic powder, EM•1 Microbial Inoculant, and molasses. It supplies beneficial microorganisms to help accelerate the breakdown of organic matter. This product will help make kitchen composting easier and faster, while destroying odors.



SUGGESTED USE:

Fermentation bucket: Sprinkle a handful of bokashi on fresh food waste after it is placed in fermentation bucket. Use enough bokashi to coat food waste thoroughly.

Compost pile: Sprinkle a handful of bokashi on fresh food waste. Fermented food waste can be buried in a hole and covered with 6 inches of soil or layered in a compost pile to accelerate decomposition.

1202401	1 Bokashi Bucket Food Waste Fermenter	\$67.99
1202402	EM•1 Bokashi - 2 lb. Bag	\$19.99
1202420	Bucket of Bokashi - 5 Gallon	\$80.24

Pfeiffer BioDynamic Compost Starter

Approved By Demeter Association For Composting!

TARGET: Compost inoculant for bio-dynamic farms.

DESCRIPTION: This inoculant contains a unique and specially selected blend of nitrogen fixing bacteria and enzymes that restart or speed up the decomposition of organic materials. For use in all forms of agriculture, this is an essential component for creating high quality and nutrient rich compost.

SUGGESTED USE: Mix with water and allow inoculant to activate in a warm place for 12 hours. Dilute mixture with enough water to fully cover and permeate compost. Spray onto compost during turning. One unit of inoculant will treat about one ton of compost.



1329001	Compost Starter - 1 Unit	\$12.00
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Compost Wizard Dueling Tumbler

The Compost Tumbler that Does it All!

TARGET: A solution for those that want to make two batches of compost simultaneously.

DESCRIPTION: This innovative and compact dual-chamber compost tumbler allows you to create two completely separate batches of compost simultaneously, all while harvesting bonus compost tea! The tumbler features two separate chambers, each capable of holding up to 25 gal. of material. Made in the USA from recycled BPA-free and FDA approved Polyethylene, it is extra eco-friendly! Additionally, its black color will aid in heat absorption necessary for compost to properly form. The 12" twist lid keeps compost and heat in and keeps animals and small children out. This 7 cubic ft. compost tumbler is completely assembled except for the connection of the included brass spigot to the base that allows access to the compost tea. This unique 5 gal. compost tea collection base. Drain compost tea with a soaker hose or by tipping the base on its side. Has a 1 yr. limited manufacturer's warranty.



SUGGESTED USE: To set up, simply place the base on the ground and place the drum on top so the wheels are aligned with the drum's track. Place compost tumbler in full to partial sun, depending on temperature. Ideal temperatures inside the drums should reach between 120°-150°F. Unscrew the lid and put 2 parts brown or dry organic materials to 1 part green or wet materials. Fill between 1/2 - 3/4 full and rotate weekly. When current batch completes, remove compost and start a new batch. Use your compost as mulch or potting soil; or spread like fertilizer on your lawns, gardens, or in container plants.

1232205	Compost Wizard Dueling Tumbler	\$125.00
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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'	\$27.00
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'	\$50.00
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





Soil Testing & Test Kits

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

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

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

- **When should I test?**

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



Luster Leaf® Rapitest® Soil Test Kit

A Quick Way To Test N-P-K!

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

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

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



1275203	Soil Test Kit for N, P, K, pH	\$16.00
1275204	pH Soil Tester	\$5.99
1275205	10 pH Soil Test Capsules - Green	\$3.19
1275206	10 Nitrogen Soil Test Capsules - Purple	\$3.19
1275207	10 Phosphorus Soil Test Capsules - Blue	\$3.19
1275208	10 Potash Soil Test Capsules - Orange	\$3.19
1275210	Combo Pack of Soil Test Capsules (10)	\$9.99

Rapitest® Digital 3-Way Analyzer

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

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

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

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



1275224	Digital 3-Way Analyzer	\$26.89
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LaMotte Garden Guide Soil Test Kit

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

TARGET: Unbalanced soil with unknown pH and NPK levels.

DESCRIPTION:

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

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



1275300	LaMotte Test Kit	\$59.99
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Soil Analysis

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

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

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



You will receive a graphical soil analysis report detailing the tested element levels (see above) and pH of your soil sample. Included in the report are initial recommendations based on the results. If you have further questions after you receive the report, you can call an ARBICO Organics Specialist to help guide your recommendations to the right products to achieve your growing goals.

1275001	Soil Analysis	\$60.00
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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 to smother out weeds, to 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.



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.

SUGGESTED USE:

1. Prepare: Fill CowPots with potting soil mix and plant seeds or transplant seedling.
2. Nurture: Water and fertilize as needed.
3. Plant: When seedlings are ready, place CowPots into soil and water.
4. Enjoy: See how simple and fun this was!

*Please call ARBICO Organics or visit our website for more detailed directions and information for sizing.

3000400	CowPots #3 Square - 12 Pots Per Pack	\$4.99
3000405	CowPots #3 Square - 400 Per Box	\$100.00
3000408	CowPots #3 Square - 1,176 Per Box	\$190.00
3000411	CowPots #3 Round - 12 Pots Per Pack	\$4.75
3000416	CowPots #3 Round - 400 Pots Per Box	\$96.00
3000419	CowPots #3 Round - 840 Pots Per Box	\$170.00
3000422	CowPots #3 SixCell - 3 Pots Per Pack	\$4.29
3000427	CowPots #3 SixCell - 50 Pots Per Pack	\$33.00
3000430	CowPots #3 SixCell - 120 Pots Per Pack	\$75.00
3000433	CowPots #4 Square - 12 Pots Per Pack	\$5.50
3000438	CowPots #4 Square - 180 Pots Per Box	\$48.00
3000441	CowPots #4 Square - 450 Pots Per Box	\$86.00
3000444	CowPots #5 Round - 66 Pots Per Box	\$33.00
3000447	CowPots #5 Round - 160 Pots Per Box	\$75.00
3000450	CowPots #5 Square - 60 Pots Per Box	\$32.00
3000453	CowPots #5 Square - 192 Pots Per Box	\$90.00
3000456	CowPots #6 Round - 42 Pots Per Box	\$24.00
3000459	CowPots #6 Round - 108 Pots Per Box	\$54.00
3000462	CowPots #6 Square - 54 Pots Per Box	\$45.00
3000465	CowPots #6 Square - 108 Pots Per Box	\$83.00
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



Prococo Coco Coir

This Compressed Coconut Coir Can Be Used in Hundreds Of Ways!

TARGET: For use in greenhouses, container plants, nurseries, gardens and landscaping as a replacement for soil and peat moss or as a soil amendment. Can also be used for animal and reptile bedding, playground mulch, in composting, liquid containment and much more.



DESCRIPTION: Made from the natural byproducts of coconut cultivation (crushed coconut husks), this premium coco coir product is renewable and sustainable. In addition to being earth-friendly, coco coir offers many advantages: it is free of bacteria and fungal spores, improves soil by slowly adding organic matter, has a low salt content and contains very little dust. It is also easy to hydrate and is resistant to mold and mildew. These compressed blocks offer a lot of coir in a solid, yet easily expanded, package.

SUGGESTED USE:

Prococo Compressed CocoPeat Block – This finely-ground coir is the only OMRI listed choice of the 3 Prococo coirs. It is a great moisture-holder and is excellent for those applications that need a little more humidity. It is terrific as a soil amendment or as an addition to vermiculture and composting.



Prococo Compressed Chips-N-Fiber Block – This coir variation has a mixture of rolled and finely chopped husks. This allows it to provide both superior water retention and easy drainage. Chips-N-Fiber works especially well with cacti and succulents. Try this coir as bedding for small mammals and reptiles; the effective drainage keeps spillage and waste away from your pet.

Prococo Compressed CocoChip Block – Made from coarsely chopped husks, this coir allows for excellent drainage. It is the recommended choice for larger container plants. It is also a really good choice for reptile bedding, especially larger snakes. The rough texture allows the snakes to rub as they shed their skin and the superior drainage keeps their enclosure dry.

1305580	Prococo Compressed CocoPeat Block	\$12.50
1305582	Prococo Compressed Chips-N-Fiber Block	\$12.50
1305581	Prococo Compressed CocoChip Block	\$12.50



ARBICO Organics™ Rice Hulls

Get A Great Start on Germination!

TARGET: Germination issues due to heavy and water holding soils.

DESCRIPTION: A natural, sustainable and renewable growing media made from par-boiled rice hulls is a great alternative to peat, vermiculite and perlite. Mixes easily with compost or potting soils, provides a good source of aeration and porosity to help seeds germinate and is specially processed to eliminate contaminants such as diseases, weed seeds or insects.



SUGGESTED USE: For best results, mix ARBICO Organics Rice Hulls with ARBICO's Compost Plus or other potting soil/compost at a ratio of ≈1:1.

1309002	ARBICO Organics Rice Hulls - 1/4 cu. ft.	\$8.99
1309003	ARBICO Organics Rice Hulls - 1/2 cu. ft.	\$14.50
1309004	ARBICO Organics Rice Hulls - 1 cu. ft.	\$23.50

Coco Coir Brick

This Natural & Renewable Growing Medium Will Help Your Plants Develop Strong Root Systems By Retaining Nutrients!



TARGET: Use for seed starting and container soil mixes, reptile habitats and more.

DESCRIPTION: Coconut Coir is a sustainable and rapidly renewable alternative to peat moss. The fibers used in coconut coir are found between the internal hard shell and the outer coat of the coconut. The microscopic coconut husk fibers resemble hollow straws that absorb and hold about 8 times their weight in water. Air circulates in the space between the fibers so that the coir remains light and does not become soggy when wet.

SUGGESTED USE:

1. Mix with perlite and vermiculite to create an excellent seed starting mix.
2. Mix with perlite, vermiculite and compost to create a great potting soil for your container plantings and raised bed gardens.
3. Use as the bedding for the Worm Factory™ or any other vermicomposting bins.
4. Add to sandy soil to increase moisture retention.
5. Substrate for arachnid and reptile terrariums.

1308060	Coco Coir Brick - 650 g.	\$5.02
1308061	Coco Coir Brick - 650 g. (5 Pack)	\$14.00
1308062	Coco Coir Brick - 650 g. (10 Pack)	\$23.50
1308063	Coco Coir Brick - 650 g. (25 Pack)	\$54.00
1308064	Coco Coir Brick - 650 g. (40 Pack)	\$79.99
1308066	Coco Coir Brick - 5 kg.	\$9.00
1308067	Coco Coir Brick - 5 kg. (2 Pack)	\$17.00
1308068	Coco Coir Brick - 5 kg. (3 Pack)	\$26.00
1308069	Coco Coir Brick - 5 kg. (4 Pack)	\$33.50
1308070	Coco Coir Brick - 5 kg. (5 Pack)	\$41.00



Image Citation: Aberdeen Mycorrhiza Research Group

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**



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

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

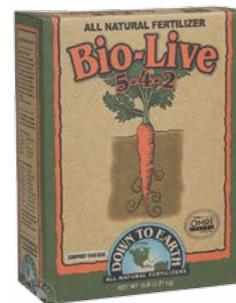
Down To Earth™ Bio-Live, 5-4-2



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

SOIL ENHANCEMENTS

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 1/4 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



EM•1® Microbial Inoculant

Increase & Maximize Your Plants' Absorption Of Nutrients!

TARGET: Accelerate decomposition & reduce odors.

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

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

1202099	EM•1 Microbial inoculant - 12 oz.	\$25.00
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
1202104	EM•1 Microbial inoculant - 55 Gallons*	CALL

*Call for freight quote.

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



Sustâne® 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	Sustâne Compost Tea Bags - 1 Bag (12 ct.)	\$9.00
1305555	Sustâne Compost Tea Bags - 1 Bag (12 ct.) Case of 5	\$42.00
1305560	Sustâne Compost Tea Bags - 1 Bag (12 ct.) Case of 10	\$80.00
1305570	Sustâne Compost Tea Bags - 1 Bag (50 ct.)	\$25.00
1305575	Sustâne Compost Tea Bags - 1 Bag (50 ct.) Case of 5	\$90.00



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
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ARBICO Organics™ Earthworms - Eisenia fetida

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

TARGET: Vermicomposting bins and soils.

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

SUGGESTED USE: 1,000 per Worm Factory 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

HEALTHY SOIL RECIPE



Everything You Need To Get The Garden Started!

These products work best when used together. See for yourself how much life they breathe into soil and plants, making them healthier, more plentiful and less prone to disease and pest infestations.

Regular Kit Includes:

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

\$54.00

1200803 Regular Size Kit

(Total price old separately: \$63.40)

Large Kit Includes:

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

\$100.00

1200805 Large Size Kit

(Total price old separately: \$124.00)

ARBICO FAMILY OF FERTILIZERS



Down To Earth™ Fertilizers

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

Research Division is dedicated to improving food productivity without sacrificing quality or safety.

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



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 Hydrolyzed Fish offers multiple benefits for your plants without the worry of damaging the soil or plants. Made from a renewable aquatic source, this fertilizer rebuilds the soil by promoting beneficial bacteria. This creates a less compact soil that drains more easily and yet holds moisture better for future use. With better soil, you can expect vigorous plant growth with higher yields.



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.



John & Bob's Maximize Microbes & Minerals

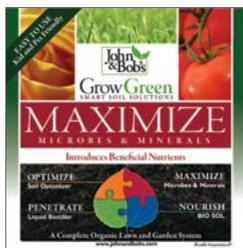
A Highly Concentrated Combination Of Essential Minerals & Microbes That Add Life & Vitality To Your Soil!

TARGET: Use as part of a complete soil improvement program along with John & Bob's Optimize, Penetrate and Nourish.

DESCRIPTION: Maximize adds vital minerals and microbes that transform lifeless soil into a living community. Unlocks stored nutrients in the soil, making them available to plants.

SUGGESTED USE: Use 8 lbs. per 1,000 square feet of soil. Cast or spread onto soil or lawn and water in. Apply twice per year.

- 1332711** John & Bob's Maximize - 8 lbs. (treats ≈1,000 sq. ft.) **\$23.40**
- 1332712** John & Bob's Maximize - 32 lbs. (treats ≈4,000 sq. ft.) **\$75.50**



John & Bob's Penetrate Organic Liquid Biotiller

This Liquid "Biotiller" Kit Breaks Apart & Transforms Hard Clay Into Rich, LOAMY SOIL!

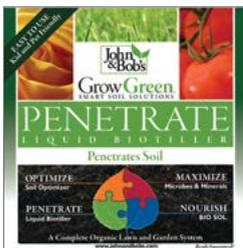
TARGET: Helps break up hard, compacted clay soils and re-energizes and opens up hard, dry, lifeless soil.

DESCRIPTION: Mix two bottles together.

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

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

- 1332716** Penetrate Organic Liquid Biotiller - 8 oz. **\$17.90**
- 1332717** Penetrate Organic Liquid Biotiller - 32 oz. **\$45.99**



John & Bob's Grow Green Optimize Soil Optimizer



Feed Your Plants & Add Beneficial Microbes To The Soil!

TARGET: Part of a complete soil improvement program when used along with John & Bob's Maximize, Penetrate and Nourish.

DESCRIPTION: Optimize consists of decomposed humus derived from Leonardite, which is found in the top layers of the earth's surface. In addition, Optimize contains calcium and iron, which work with humus to balance the soil and feed the beneficial microorganisms that are necessary for plant texture and health.

SUGGESTED USE: Broadcast at the rate of 3 lbs. per 1,000 square feet of soil or lawn and water in. For vegetable transplants or up to 5 gallon transplants, use 2 tbsp.

- 1332707** Optimize Soil Optimizer - 3 lbs. (treats ≈1,000 sq. ft.) **\$18.00**
- 1332708** Optimize Soil Optimizer - 6 lbs. (treats ≈2,000 sq. ft.) **\$31.50**
- 1332709** Optimize Soil Optimizer - 12 lbs. (treats ≈4,000 sq. ft.) **\$52.00**
- 1332710** Optimize Soil Optimizer - 42 lbs. (treats ≈14,000 sq. ft.) **\$80.00**



John & Bob's Grow Green Nourish-Biosol®, 7-2-1

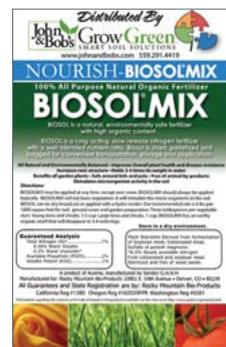
100% Vegetable Sourced Fertilizer!

TARGET: Nourish is a 100% vegetable sourced fertilizer. Use as part of a complete program for soil improvement along with John & Bob's Maximize, Optimize and Penetrate.

DESCRIPTION: This fertilizer provides instant food for plants, available in just a few days for root uptake. Ingredients include fermented soybean and cottonseed meal, which are full of simple sugars to feed the beneficial bacteria supporting their activity in the soil needed to support healthy and quick plant growth.

SUGGESTED USE: Spread onto the soil or lawn at a rate of 6 lbs. per 1,000 square feet, then water it in. Apply twice per year.

- 1332713** Nourish-Biosol - 6 lbs. (treats ≈1,000 sq. ft.) **\$19.99**
- 1332714** Nourish-Biosol - 24 lbs. (treats ≈4,000 sq. ft.) **\$52.00**
- 1332715** Nourish-Biosol - 55 lbs. (treats ≈10,000 sq. ft.) **\$62.00**



Restore Poor, Compacted Or Lifeless Soil With These Smart Soil Solutions.

Do you know what fertilizer your plants need?

Selecting the right fertilizer for your plants is very important for optimum health and growth.

Here are some tips to help you make your selection:

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

N = Nitrogen: Important for plant tissue growth.

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

K = Potassium: Helps carbohydrate production and regulates metabolism.

2. Identify common symptoms of nutrient deficiencies

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

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

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



Maxicrop Soluble Seaweed Powder, 0-0-17



Improves Germination & Helps Prevent Diseases.

TARGET: Soils that need additional minerals.

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

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



1313001	Maxicrop Soluble Seaweed Powder - 10.7 oz.	\$19.99
1313002	Maxicrop Soluble Seaweed Powder - 27 oz.	\$35.00
1317202	Maxicrop Soluble Seaweed Powder - 44 lbs.	\$399.00

Maxicrop Liquid Seaweed 0-0-1

Boost Plant Growth With This Concentrated & Nutrient Rich Fertilizer!

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

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

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



1313005	Maxicrop Liquid Seaweed - 32 oz.	\$14.00
1313006	Maxicrop Liquid Seaweed - 1 Gallon	\$27.25
1313007	Maxicrop Liquid Seaweed - 2.5 Gallons	\$58.00

Maxicrop Kelp Meal 1-0-2



Successful Growers Choice To Correct Deficiencies & Improve Plant Nutrition!

TARGET: Deficient soils that need macronutrients.

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

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



1314801	Maxicrop Kelp Meal - 5 lbs.	\$16.75
1314804	Maxicrop Kelp Meal - 55 lbs.	\$87.00

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

For Trees, Flowers, Lawns, Fruits & Vegetables!

TARGET: Stressed plants and seed starting.

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

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



1313035	Maxicrop Liquid Seaweed Plus Iron - 2 oz.	\$14.30
1313036	Maxicrop Liquid Seaweed Plus Iron - 1 Gallon	\$28.80
1313037	Maxicrop Liquid Seaweed Plus Iron - 2.5 Gallons	\$55.50



Down To Earth™ (DTE™) organic fertilizers are ideal for enhancing soil fertility and stimulating plant growth in a sustainable and environmentally friendly way. Organic fertilizers add nutrients to the soil for uptake by plants and for use by the myriad microorganisms that inhabit healthy, productive soil.

DTE Acid Mix, 4-3-6

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

1300200	Down To Earth Acid Mix Mini - 1 lb.	\$4.29
1300201	Down To Earth Acid Mix - 6 lbs.	\$10.69

Larger sizes available - please go online or call.



DTE All Purpose Mix, 4-6-2

Fertilizer For All Of Your Growing Needs!

1300209	Down To Earth All Purpose Mix Mini - 1 lb.	\$4.29
1300207	Down To Earth All Purpose Mix - 6 lbs.	\$10.90

Larger sizes available - please go online or call.



DTE Bat Guano, 9-3-1

High-Nitrogen Fertilizer From Bat Guano.

1300000	Down To Earth Bat Guano Mini - .25 lb.	\$4.29
1300001	Down To Earth Bat Guano - 2 lbs.	\$11.09
1300002	Down To Earth Bat Guano - 10 lbs.	\$33.49



DTE Bio-Live, 5-4-2

A Nutrient And Microbe-Rich Fertilizer!

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



DTE Blood Meal, 12-0-0

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

1300300	Down To Earth Blood Meal Mini - .5 lb.	\$4.29
1300301	Down To Earth Blood Meal - 5 lbs.	\$18.89
1300302	Down To Earth Blood Meal - 20 lbs.	\$53.19
1300303	Down To Earth Blood Meal - 50 lbs.	\$103.19

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

DTE Bone Meal, 3-15-0

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

1300219	Down To Earth Bone Meal - 6 lbs.	\$12.69
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Larger sizes available - please go online or call.



DTE Crab Meal, 4-3-0

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

1300225	Down To Earth Crab Meal - 5 lbs.	\$12.39
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Larger sizes available - please go online or call.



DTE Rose & Flower Mix, 4-8-4

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

1300233	Down To Earth Rose & Flower Mini - 1 lb.	\$4.29
1300231	Down To Earth Rose & Flower Mix - 6 lbs.	\$10.69

Larger sizes available - please go online or call.



DTE Seabird Guano, 0-11-0

Phosphorous Rich Fertilizer & An Herb Grower's Favorite Choice!

1300023	Down To Earth Seabird Guano - 5 lbs.	\$16.79
1300024	Down To Earth Seabird Guano - 20 lbs.	\$46.79

Larger sizes available - please go online or call.



DTE Vegan Mix, 3-2-2

A Veganic Fertilizer For All Your Growing Needs!

1300237	Down To Earth Vegan Mix - 6 lbs.	\$10.69
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Larger sizes available - please go online or call.

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.

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| 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 55) in wet environments.

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| 1332724 | Cease - Biological Fungicide - 1 Gallon | \$75.50 |
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RootShield® Home & Garden



Help Your Vegetables, Flowers & Ornamentals Fight Root Diseases!

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

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

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

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| 1332740 | RootShield Home & Garden - 4 oz. | \$22.00 |
| 1332741 | RootShield Home & Garden - 1 Case (12 Bottles) | \$215.00 |

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



BONIDE® Sulfur Plant Fungicide

Effective Against Several Key Insect Pests As Well As Fungal Diseases

TARGET: Knockdown control for apple cedar rust, black rot, brown rot, chiggers, citrus red spider, fleas, frog eye, leaf spot, powdery mildew, quince rust, rust mite, scab, scale, sooty blotch, thrips, ticks, two-spotted spider mites and russet mites.

DESCRIPTION: The fine particles of this micronic sulfur product provide optimum coverage, adhesion and disease control and work equally well whether applied as a dust or mixed with water for a spray. For best results, apply thoroughly to all leaf surfaces before diseases develop and repeat weekly to maintain control.

SUGGESTED USE: Specially formulated for use on berries, cherries, grapes, citrus, apples, cucurbits, apricots and currants. Do NOT

use when an oil spray has been applied within the prior month or when temperatures are expected to exceed 80°F. This container covers approximately 500 sq. ft. at the general mix and application rate.

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| 1454701 | BONIDE Sulfur Plant Fungicide - 1 lb. Bottle | \$8.75 |
| 1454702 | BONIDE Sulfur Plant Fungicide - 4 lb. Bag | \$17.00 |



Actinovate® Lawn & Garden Fungicide



Prevents & Treats Lawn, Root & Foliar Diseases!

TARGET: Brown Ppatch (*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 55) 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



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**



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 amyloliquifaciens* 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 quart/100 gallons 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**



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.

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| 1332805 | SuffOil-X - 2.5 Gallons | \$62.00 |
| 1332806 | SuffOil-X - Case of 2 ct./2.5 Gals. | \$112.00 |
- Call for larger sizes.



BotryStop™ Biofungicide



These Fungal Spores Will Fight To Replace Pathogens On Plants.

TARGET: To be used as a preventative biological fungicide for the control of the pathogens *Botrytis cinerea*, *Sclerotinia sclerotiorum* and *Monilinia spp.*

DESCRIPTION: This preventative biological fungicide contains the naturally occurring, non-pathogenic saprophytic fungus *Unocladium oudemansii* (U3 strain). These spores control pathogens by aggressively occupying the same ecological space and out-competing them for resources. Spores will colonize dead and senescing plant tissue and push pathogens out, providing protection to fruit, blossoms and plant tissue. OMRI listed BotryStop is non-invasive and poses no threat to living tissue. For use on a wide variety of crops and ornamentals in most areas; in CA it is **not** labeled for use on vegetables and ornamentals.

SUGGESTED USE: Do not apply through any type of irrigation system. Use with a surfactant or non-ionic adjuvant (such as ThermX™-70 Natural Wetting Agent on page 55) to ensure proper product wetting and spreading. Can be used in combination with other fungicides, but not more than one. The application rate range is 2-4 lb./acre. The most common rate is 3 lb./acre.

This product requires overnight shipping and must be kept refrigerated. It must be kept stored around 40°F, but not freezing.

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| 1332840 | BotryStop Biofungicide - 12 lb. Bag | \$270.00 |
| 1332841 | BotryStop Biofungicide - Case of 12 lb. Bags/4 Ct. | \$1,000.00 |



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.



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| 1222504 | BioSafe Disease Control - 32 oz. RTU | \$14.75 |
| 1222505 | BioSafe Disease Control - 32 oz. RTS | \$25.00 |

MilStop® Broad Spectrum Foliar Fungicide



Excellent For Controlling Powdery Mildew & Other Fungal Diseases!

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

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

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

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| 1332753 | MilStop Foliar Fungicide - 5 lb. Bag | \$67.00 |
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- Cannot be shipped to the following states: DC



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

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

WARNING

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



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, H1N 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

Call for larger sizes.

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

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



PRE-EMERGENTS

Orland's Safe-T-Weed®

Corn Gluten Pre-Emergent Herbicide That's Great For Lawns & Gardens!

TARGET: It is effective against most common lawn and garden weeds. Use in your lawn, garden or fields before weeds sprout.

DESCRIPTION: Orland's Safe-T-Weed is a pre-emergent natural corn gluten herbicide that kills the tiny feeder roots of sprouting seeds. It does not harm established plants or vegetable and flower sprouts that have true leaves. While it controls sprouting weed seeds, it does NOT control established perennial weeds such as dandelions. The EPA found Orland's Safe-T-Weed so friendly to the environment that it is exempted from EPA herbicide regulations. Used as directed, children or pets can play on treated areas immediately after application and it will not harm beneficial insects, soil organisms or pond or stream life. In addition, its high nitrogen content (9-0-0) works to green up your lawn.

SUGGESTED USE: Safe-T-Weed is easy to spread using a can or cup for small areas. Use a spreader for lawns. One pound treats 50 sq. ft. of flowerbed, garden or lawn.

1226803	Orland's Safe-T-Weed - 25 lb. Bag	\$35.00
1226802	Orland's Safe-T-Weed - (2) 25 lb. Bags	\$65.50
1226801	Orland's Safe-T-Weed - 1 Ton*	CALL

*Call for freight quote.



Earth Harvest Gluten-8 Liquid Corn Gluten - Set of 2

Easy To Apply Liquid Weed Control Without The Effort Of Lifting A Heavy Bag Of Corn Gluten Meal.

TARGET: Pre-emergent weed control and mild nitrogen fertilizer.

DESCRIPTION: Water-soluble and derived from corn gluten meal, it provides pre-emergent control of annual grasses and broadleaf weeds without the effort of applying the granular corn gluten. This product is packaged in a container that has a hose-end spray head for a reliable application.

SUGGESTED USE: A 2 quart set of Gluten-8 represents a 40 pound bag of corn gluten meal and treats approximately 2,000 sq. ft.

1273015	Gluten-8 Liquid Corn Gluten - Set of 2 - 32 oz. Hose End	\$29.45
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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
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BROAD SPECTRUM

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



BONIDE® Burnout

Fast Acting Weed & Grass Killer!

TARGET: Unwanted grass and weeds.

DESCRIPTION: Uses natural ingredients to kill all types of weeds, unwanted grass, and their roots. This fast acting solution is great from driveways, sidewalks, around the base of mature trees, fence lines, around buildings and anywhere weed control is needed. This product is rainproof when dry and will work in temperatures as low as 40°F.

SUGGESTED USE: For RTU/PNS: Spray on broadleaf and grassy weeds, making sure all of the foliage is wet. For concentrate: Use 1:3 parts water, 1 gal. of mix covers about 1,500 sq. ft. Repeat application as necessary.



1453775	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

SaferGro® Weed Zap®



Get Rid Of Weeds In A Zap!

TARGET: Small broadleaf and grassy weeds.

DESCRIPTION: This contact, non-selective, broad spectrum, biodegradable, foliar herbicide is made from clove and cinnamon oils. SaferGro Weed Zap will only control actively growing emerged green vegetation and controls annual and perennial broadleaf and grassy weeds. It will only affect plants that are coated with the spray solution and does not damage non-green woody plants.

SUGGESTED USE: Use 4.6 oz. per 1 gallon of water, 32 oz. per 5 gallons of water, 64 oz. per 10 gallons of water, or 5 gallons per 100 gallons of water. Cover the entire surface of the weed and spray to the point of run off. The use of a spreader/sticker may increase contact and efficacy of treatment.



1811108	SaferGro Weed Zap - 32 oz. RTU	\$10.75
1811106	SaferGro Weed Zap - 1 Quart	\$30.00

For New Flower & Garden Beds, Lay Down WeedGuardPlus To Prevent Weeds.

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

Summerset AllDown® Organic Herbicide



A Worry-Free Alternative To Oil-Based Herbicides.

TARGET: Annual broadleaf weeds, perennial weeds, annual and perennial grasses.

DESCRIPTION: AllDown acts as a burn-down herbicide by attacking the protective cuticle of the plant, causing the plant to rapidly weaken and die. The active ingredients, citric and acetic acid, will not persist in the soil and build up to harmful levels. As with other weed killers, be sure to apply AllDown only on those plants that you want to remove. AllDown comes in two formulations: RTU and Concentrated. The concentrated version is OMRI listed, so you can be confident that the ingredients have been scrutinized and found to conform to strict organic standards.



SUGGESTED USE:

Concentrate: Mix 1 part AllDown Concentrate to 3 parts water sufficient to treat at an application rate of 7.5-15 fl. oz. per 100 sq. ft. Shake or stir well. For larger annuals and burndown of perennial weed growth, mix stronger by using 1 part AllDown to 2 parts water.

RTU: Apply spray solution at a rate of 7.5-15 fl. oz. per 100 sq. ft.

1453862	Summerset AllDown RTU - 32 oz. Spray	\$12.99
1453860	Summerset AllDown Concentrate - 1 Gal.	\$49.95

Cannot be shipped to the following states: NM



Down To Earth™ Bio-Turf, 8-3-5



Boost Your Lawn's Health with Needed Nitrogen & More! Also Great for Gardens!

TARGET: Lawns and gardens lacking nitrogen and potassium.

DESCRIPTION: Rich in both in nitrogen and potassium, this OMRI listed granular fertilizer contains feather meal, fish meal, blood meal, meat meal, bone meal and langbeinite. It is ideal for both lawns and garden vegetables like corn, tomatoes and leafy greens. It provides a slow release of nutrients that encourage deep root development and growth while reducing seasonal stress, water requirements and thatch issues in lawns.

SUGGESTED USE: For established lawns, apply 3-4 times year and after aeration. In spring/summer apply ≈6-12 lbs./1,000 sq. ft. and apply ≈5-10 lbs./1,000 sq. ft. in late summer/fall. For new lawns, apply ≈12 lbs./1,000 sq. ft., mixed into top 2-4" of soil before seeding or sodding. For vegetables apply ≈4-6 lbs./100 sq. ft. Can be used as a side dressing during growing season by applying ≈2-4 tbsp./plant. For transplants use ≈1-2 tbsp./hole.



1300213 Down To Earth Bio-Turf - 6 lb. Box **\$13.79**

Neptune's Harvest Turf Formula Fertilizer, 2-0-2

Is Your Lawn Lacking Luster? This Nutrient Rich Fertilizer Adds Vigor To Lawns, Landscapes & Gardens!

TARGET: Lawns, recent turf repairs, reseeding, flowers, vegetables, trees and shrubs lacking nutrients in warm dry environments.

DESCRIPTION: Made from fresh North Atlantic fish, molasses, seaweed (*Ascophyllum nodosum*), humate, and yucca extract, this liquid fertilizer provides needed nutrients in environments with higher temperatures and drought. It will improve root density and plant color by providing important macro and micro-nutrients.

SUGGESTED USE: For outdoor use, shake well before application. For lawns and reseeding, use about 1 pint/1,000 sq. ft. For flowers, vegetables, trees and shrubs use about 1 oz./1 gal. water and water as normal. Apply every 2-3 weeks.



1314994 Neptune's Harvest Turf Formula Fertilizer - 1 Gal. Jug **\$45.00**

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

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 1 Quart **\$16.00**
1388202 1 Gallon **\$45.00**



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 Beneficial Nematodes**, which will aid in spreading the bacterium to grubs. Store in a cool dry place to maintain shelf life.

SUGGESTED USE: Use All-Purpose Dispenser Tube for easy application (**See page 55**). 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 **\$1,399.00**
1216052 All-Purpose Dispenser Tube **\$14.50**

*Call for freight quote.

Cannot be shipped to the following states: OR, WA



The Worm Factory

Create Castings That Are Rich In N-P-K Trace Elements & Nutrients!

TARGET: Compostable kitchen scraps and shredded papers.

DESCRIPTION: Turn your scraps into nutrient rich worm castings and make an excellent organic fertilizer. This inventive product harnesses the ability of composting worms to quickly and efficiently turn kitchen wastes into beneficial, nutrient packed castings. With this unique stacking product, it is easy to compost kitchen scraps, paper waste, and cardboard. Worms are placed in the compact bottom bin with the coir, bedding and kitchen scraps. They begin to feed, migrating upwards into top bins once they have consumed and turned scraps into castings. Composting worms work 24/7, consuming as much as half their weight daily.

SUGGESTED USE: Start by placing ≈1,000 composting worms in the bottom tray with bedding, coir brick, and add your compostable household wastes. For wastes, add about 50% of items such as fruits, vegetables, grains, egg shells, leaves and coffee grounds. The remaining 50% should consist of fiber, such as paper scraps. Worms can be fed as much as a handful per day, or as little as a handful per week. Worms sold separately (available online).



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| 1308011 | Worm Factory 3-Tray System - <i>Black</i> | \$79.95 |
| 1308014 | Worm Factory 3-Tray System - <i>Terracotta</i> | \$89.95 |
| 1308012 | Worm Factory 5-Tray System - <i>Black</i> | \$99.95 |
| 1308016 | Worm Factory 5-Tray System - <i>Terracotta</i> | \$109.95 |
| 1308005 | 2 Pack Replacement Trays - <i>Black</i> | \$17.90 |
| 1308004 | 2 Pack Replacement Trays - <i>Terracotta</i> | \$21.90 |

REOTEMP® Compost Thermometer 20"

A Unique Gift To Make Perfectly Finished Compost!

TARGET: Test compost temperature.

DESCRIPTION: This 20" long, stainless steel thermometer has an easy to read dial.

SUGGESTED USE: Determine whether your compost is at the correct temperature to "cook" properly.



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| 1402401 | REOTEMP Compost Thermometer 20" | \$26.00 |
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Chameleon Adaptable Hose End Sprayer

Perfect Application!

DESCRIPTION: Multipurpose sprayer that works great with Beneficial Nematodes (see pages 16-17). This affordable, easy-to-use, light-weight multi-purpose sprayer is perfect for applying your natural biologicals, fertilizers, amendments, insecticides, herbicides & fungicides.

SUGGESTED USE: Beneficial Nematode application.



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| 1800006 | Chameleon Adaptable Hose End Sprayer - 1 Sprayer | \$14.75 |
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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 19).



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

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| 1216052 | All-Purpose Dispenser Tube | \$14.50 |
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ThermX™ -70 Natural Wetting Agent

Overcome Adverse Water Conditions!

TARGET: Increases water & fertilizer uptake.

DESCRIPTION: This 70% concentrated yucca extract helps plants overcome adverse water conditions and is a great sticker for other sprays. Increases crop's ability to germinate and establish in stressed conditions, and increases 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

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| 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.

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!

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| 1255101 | Little Pete Multiple Catch Mouse Trap | \$14.75 |
| 1255100 | Repeater Multiple Catch Mouse Trap | \$16.55 |

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.

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| 1255001 | Smart Mouse Trap - 1 Per Box | \$14.20 |
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NemaSeek Hb Beneficial Nematodes

If your lawn or garden is being damaged from moles, consider applying Hb Beneficial Nematodes and Milky Spore (see page 19).

Moles are attracted to the insects and grubs in the soil and destroy plants by their tunneling to get to them. By controlling the grub populations, you are eliminating the moles food source and deterring them from the area. See pages 16-17 for more information.



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.

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| 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

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.

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| 1255005 | Ultrasonic Rodent Repeller 3-Pack Single Plug-in Speaker | \$27.00 |
| 1255007 | Ultrasonic Rodent Repeller 3 Speaker Plug-in | \$26.00 |



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)	\$8.55
1257201	Wire Mini Basket - 1 Gallon (Pack of 2)	\$9.00
1257202	Wire Mini Basket - 3 Gallon	\$10.90
1257203	Wire Mini Basket - 5 Gallon	\$11.50

Sweeney's® Mole & Gopher Repellent

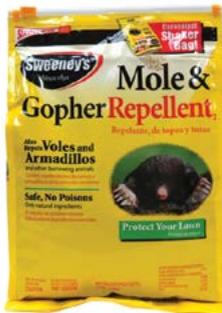
Utilize Castor Oil To Repel Pest Animals From Your Garden & Lawn.

TARGET: Pest armadillos, burrowing animals, gopher, moles, voles.

DESCRIPTION: Made from 20% castor oil, this product repels with scent and taste. Specially engineered granules easily penetrate soils, reaching underground tunnels quickly deterring pests and contaminating their underground food sources.

SUGGESTED USE: Apply to lawns and gardens using about 2 lbs. per 1,000 sq. ft. Each 10-lb. resealable bag will treat about 10,000 sq. ft. Strategic placement over about a 5 day period is required to drive pests away from treatment area.

1287510	Sweeney's Mole & Gopher Repellent - 4 lb. Shaker Bag	\$18.99
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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



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 16-17 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 **\$11.50**
- 1257896 Monterey Ant Control - 2.5 lb. Jug **\$21.50**

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



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**

This product 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**

Essentria™ G Granular Insecticide

A Granular That Handles A Handful Of Outdoor Pests!

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

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

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



1273050 Essentria G Granular Insecticide - 22 lbs. **\$67.50**

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 crystalline 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**



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

HOUSEHOLD PEST CONTROL

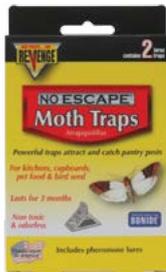
REVENGE® Pantry Moth Trap

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® Electronic Flea Trap

Great Indoor Flea Control!

TARGET: Monitors and captures fleas.

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



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

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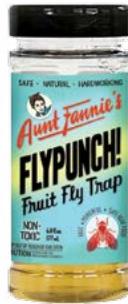
Aunt Fannie's FlyPunch!



Pesky Fruit Flies Can't Wait To Dive Into These Jars!

TARGET: For use against Fruit Flies (*Drosophila*).

DESCRIPTION: Fruit flies are not just nuisance pests; they can transmit many pathogens, including *Escherichia coli* (*E.coli*) bacteria. This unique formulation acts to attract, disable and kill fruit flies. The attractant will draw them into the dispenser and, once they touch the substance inside, it works to break down their exoskeleton. The disabled insect will be drawn down into the liquid and drown.



SUGGESTED USE: No mixing or assembly required, simply open the DiveJar flip top and place near common fruit flies areas. One DiveJar covers an area about 500 cu. ft. FlyPunch! Is most potent for the first 2 weeks, but may last up to 30 days. Dispose of DiveJar when full.

1280650	Aunt Fannie's FlyPunch! - 6 oz.	\$7.99
1280655	Aunt Fannie's FlyPunch! - 6 oz./6 Pack	\$43.00

BioCare® Glass Insect Trap

You Can Add The Lure Of Your Choice To This Decorative Glass Trap.

TARGET: For use indoors or outdoors to trap and kill flying insects.

DESCRIPTION: This beautiful colored glass trap stands about 5" tall and can be placed on a table or hung up (don't put it too close to where you eat or gather). This trap will draw insects into a hidden entrance on the bottom; once inside, they drown. Comes without a bait, so you have the option to choose one that most closely fits your needs. We recommend the BioCare Fruit Fly Lure, or you could create your own bait.



SUGGESTED USE: For a powerful all-purpose bait, add ¼ cup fruit juice, a dime-sized portion of fish, meat or cat food and 2 drops of dish soap. Remove cork, tilt jar and pour liquid in, then replace cork. Re-bait trap when full or every 2-3 weeks.

1280903	BioCare Glass Insect Trap	\$13.95
1280905	BioCare BioCare Fruit Fly Lure - 3 Pack	\$5.40
1280900	BioCare Glass Fruit Fly Trap Kit (1 Trap, 3 Lures)	\$16.50

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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BED BUG CONTROL

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: Utilizing Diatomaceous Earth, Harris Bed Bug Killer is effective against against bed bug adults, nymphs and hatchlings, these tablets are 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. Spray	\$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.

1250100	ClimbUp Original - 1 Unit	\$4.75
1250101	ClimbUp Original - 4 Pack	\$13.50
1250102	ClimbUp Original - 12 Pack	\$35.95

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