

ARBICO *organics*™

Providing Organic Solutions For Growers Since 1979

Spring Catalog 2019

Natural Products For Your Organic Garden, Farm and Livestock!



This year the ARBICO Organics family celebrates 40 years of service to our customers. Since 1979, we have been committed to our mission of providing the highest customer service and finest quality of products to encourage sustainable and organic practices to our community. We look forward with gratitude to the opportunity to continue to grow with you in the future.





In 1979, Rick and Sheri Frey hosted friends who shared their latest discovery – insects that parasitize flies! Rick was captivated and ARBICO Organics was born. Rick began to grow Fly Eliminators in a carport closet then upgraded to an airstream trailer. Sheri had a passion for the environment and teamed up with him promoting their philosophy of “bio-balance”.

ARBICO

SUSTAINABLE ENVIRONMENTAL ALTERNATIVES FOR GROWERS



Fly Eliminators launch as first Product.



1979



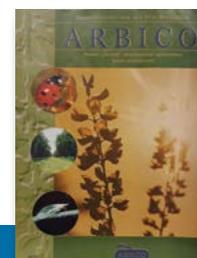
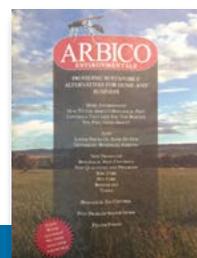
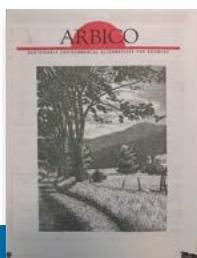
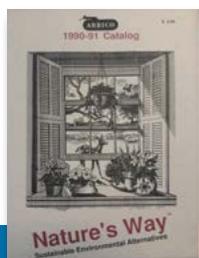
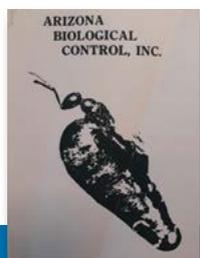
The airstream used to grow Fly Eliminators.



The “Insectary” in Catalina, AZ.



In 1984, ARBICO expanded to a 10 acre facility, nestled in the Catalina Mountains north of Tucson, AZ. Here the company grew to include an insectary, a shipping department to mail bugs around the country and a sales and marketing team! Each year brought on more products and more team members to help promote environmentally friendly options for homes, gardens, barns and farms.





After 40 years, we continue to challenge ourselves to grow the best insects we can and to deliver those insects and additional organic farm & garden supplies to our customers. What started with one insect has grown to include so much more and we continue to thank the support of our customers and our community of family, friends and coworkers who have made this all possible!



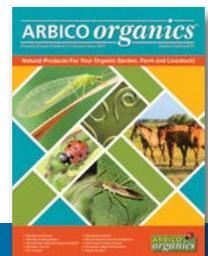
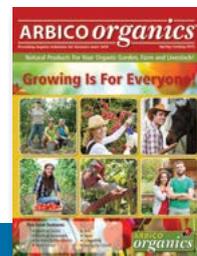
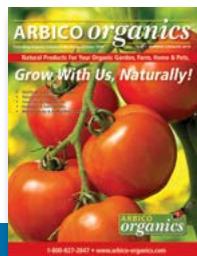
2019



The retail store in Oro Valley, AZ.

Throughout the 1990's and 2000's our customers and their needs diversified and we have added over 20 different kinds of insects and thousands of other products to our offerings to support pesticide-free solutions.

In 2011, the company grew once again and ARBICO attained another location in Oro Valley, AZ that includes a retail location where locals can shop for their favorite products!





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™

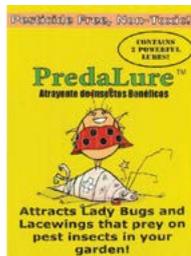
Attract Ladybugs, Green Lacewings & Many Other Beneficial Insects Into Your Garden With Predalure.

TARGET: Attract predatory beneficial insects such as green lacewings, 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 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



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



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**





Natupol Bumblebee Hives

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

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

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



SUGGESTED USE:

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

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

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

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

TARGET: Small Hive Beetles (*Aethina tumida*).

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



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

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

1220200	<i>Heterorhabditis indica</i> - 5 million	\$36.00
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*Free shipping in the contiguous 48 United States. 2nd day shipping required.

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

GENERALISTS

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



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

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

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



Temperature: Minimum: 60°F Best: 75-90°F **Relative Humidity:** 30-50%
Release Rate: Every 7-10 days

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

Green Lacewing Eggs Programs:

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

SUGGESTED USE (Depending upon level of infestation):

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

Larvae & Adults Require OVERNIGHT Shipping

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

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

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

Ladybugs - *Hippodamia convergens*

Ladybugs Consume A Vast Quantity Of Soft-Bodied Insects.



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

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

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

Temperature: Moderate: 62-88°F **Relative Humidity:** Minimum 40%

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

Expedited Shipping Required

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

Minute Pirate Bug - *Orius insidiosus*

Excellent General Predator In Field Crops & Greenhouses.



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

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

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

Temperature: 64-82°F **Relative Humidity:** Moderate ≈60%

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

Overnight Shipping Required

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

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	\$4.95
1121001	3 Egg Cases	\$13.48
1121101	10 Egg Cases	\$41.15

Seasonal availability.

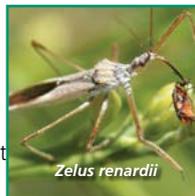
Ships US Mail

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%

1000105	~250 Eggs	\$30.00
1000106	~500 Eggs	\$50.00
1000107	~1,000 Eggs	\$85.00

*FREE SHIPPING in the contiguous 48 states. Ships Monday - Thursday via 2nd Day.

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*).



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

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

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

1101101	~250 Mummies	\$80.00
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Overnight Shipping Required

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

Aphid Parasite - *Aphidius colemani*

Exceptional In Greenhouses Producing Vegetables & Ornamentals.

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

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



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

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

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

Overnight Shipping Required

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

Aphid Parasite - *Aphidius ervi*

This Non-Stinging Parasitic Wasp Attacks Larger Aphid Species.

Image Citation: Alex Wild

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

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

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

Temperature: 64-75°F **Relative Humidity:** Moderate ≈70%

1001001 ≈250 Mummies **\$80.00**

Overnight Shipping Required

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



Aphidius ervi

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



Aphidoletes aphidimyza

SPECIALISTS - WHITEFLY CONTROL

Whitefly Parasite - *Eretmocerus eremicus*

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

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

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

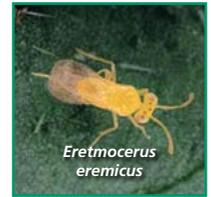
SUGGESTED USE (Depending upon level of infestation): For prevention: use 1,000/10,000 sq. ft. Light infestations: 1,000/1,000 sq. ft. Heavy infestations: use 5,000/1,000 sq. ft. Hang squares with parasitized pupae on plant foliage at first sign of infestation. Order weekly for approximately 2-6 weeks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

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

1000703 20 Blister Packs (≈250 Pupae Per Pack) **\$94.95**

Overnight Shipping Required

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



Eretmocerus eremicus

Whitefly Parasite - *Encarsia formosa*

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

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

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

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

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

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

2nd Day Shipping Required

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

Ships only on Monday, Tuesday and Wednesday.

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



Encarsia formosa



Whitefly Parasite - *Delphastus catalinae*

These Tiny Brown Beetles Consume Several Hundred Pests Daily!

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

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

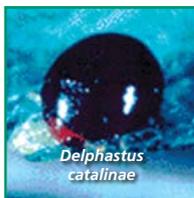
SUGGESTED USE (Depending upon level of infestation): Upon arrival, release at sundown. May be stored at temperatures between 50-60°F for 1-2 days. Can be combined with other whitefly parasites.

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

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

Overnight Shipping Required

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



Delphastus catalinae

BENEFICIAL MITES

Spider Mite Destroyer - *Feltiella acarisuga*

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

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

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

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

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

1155701	≈250 Count	\$144.00
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Overnight Shipping Required

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



Feltiella acarisuga

BENEFICIAL MITES

Mite Predator - *Neoseiulus (=Amblyseius) californicus*

Good For Areas Where Temperatures Fluctuate Greatly Such As Deserts.

TARGET: Various spider mites, cyclamen mites, broad mites and russet mites.

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

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

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

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

Overnight Shipping Required

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



Neoseiulus (=Amblyseius) californicus

Mite Predator - *Mesoseiulus longipes*

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

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

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

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

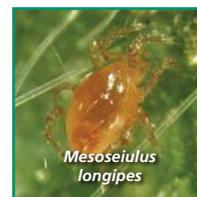
SUGGESTED USE (Depending upon level of infestation): Use in warm/dry greenhouses and in low pest population; lasts longer than most mite predators. Use weekly and apply 3-5 times. For indoor use: ≈1,000 per 300 sq. ft. For outdoor use: ≈5,000 per acre.

Temperature: 65-90°F **Relative Humidity:** 40-60%

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

Overnight Shipping Required

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



Mesoseiulus longipes

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.

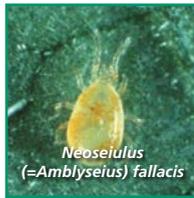
SUGGESTED USE (Depending upon level of infestation): Good for cold climates! Use preventatively; over-winters and sustains on pollen. Release at the start and end of the season. Use ≈1,000 per 4,500 sq. ft or 10,000 per acre.

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

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

Overnight Shipping Required

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



Neoseiulus
(= *Amblyseius*) *fallacis*

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

Overnight Shipping Required

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



Galendromus
occidentalis

BENEFICIAL MITES

Mite Predator - *Amblyseius andersoni*

Great For Pre-Emergent Control Of Pest Mite Infestations!

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

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

SUGGESTED USE (Depending upon level of infestation): For best results, apply as a preventative treatment of mite infestations in vegetable crops, strawberries, raspberries, and fruit trees. Sachets allow for controlled release of mites over 4-6 weeks. Apply at a rate of 1-2 mites per sq. ft, or 1 sachet per plant. Place sachets within plant canopy. Use sachets on sticks at 1 per propagation tray, or where canopy cannot hold sachet on hook. Replace sachets every four weeks for continued control. Can be used with *Phytoseiulus persimilis* and *Stethorus punctillum*.

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

BULK SIZES:

1101323	≈25,000 in 200 Mini Sachets w/Hooks	\$150.00
1101350	≈25,000 in 200 Mini Sachets on Sticks	\$162.00
1101325	≈62,500 in 250 Sachets	\$225.00
1101355	≈125,000 in 1,000 Mini Sachets on Sticks	\$650.00
1101322	≈125,250 in 6 x 328 ft. Strips of Sachets	\$600.00

CONTROLLED RELEASE:

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

Overnight Shipping Required

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



Amblyseius
andersoni



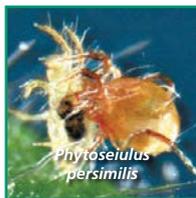
Mite Infestation

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 Elyahu Ltd.

TARGET: Two spotted spider mites and various other mites.



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

SUGGESTED USE (Depending upon level of infestation): For prevention on tomatoes and indoor crops, apply 1-3 mites per sq. ft. Increase to 5 or more mites per sq. ft. for moderate infestations. For severe infestations consider using a knockdown prior to release of predatory mites. See online or call for severe infestations or outdoor control.

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

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

Overnight Shipping Required

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

Spider Mite Destroyer - *Stethorus punctillum*

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

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



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

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

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

1113301	≈100 Count	\$79.00
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Overnight Shipping Required

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

SPECIALISTS

Thrips Predator - *Amblyseius cucumeris*

These Beneficial Mites Consume Vast Quantities Of Thrips.

TARGET: Prefers greenhouse and western flower thrips. They will also eat spider mites, russet mites and pollen.



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

SUGGESTED USE (Depending upon level of infestation): For best results, apply before onset of thrips infestation. For prevention, use at a rate of 10-20 mites per sq. ft at weekly intervals. Use continuous release sachets at 1 per 3 sq ft. for 3-6 weeks. Spot treat with 10-40 mites per sq. ft. weekly until infestation subsides. Monitor with blue sticky traps or ribbon (see pg. 16).

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

BULK SIZES:

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

CONTROLLED RELEASE:

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

Overnight Shipping Required

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

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

SPECIALISTS

Thrips & Whitefly Predator - *Amblyseius swirskii*

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

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

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

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

Temperature: Moderate 77-85°F **Relative Humidity:** 70%

BULK SIZES:

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

CONTROLLED RELEASE:

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

Overnight Shipping Required

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



Amblyseius swirskii



Whitefly Infestation

Mealybug Parasitoid - *Anagyrus pseudococci*

Stop Destructive Mealybugs With This Beneficial Parasitoid.

Image Citation: Crerob Hermosillo, Mexico

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

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

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

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

1132062 ≈500 Mummies **\$120.00**

Overnight Shipping Required

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



Anagyrus pseudococci

Red Scale Parasite - *Aphytis melinus*

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

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

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

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

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

1122001	≈10,000 Adults	\$27.00
1122002	≈25,000 Adults	\$57.00
1122003	≈50,000 Adults	\$109.00

Overnight Shipping Required

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



Aphytis melinus

Mealybug Destroyer - *Cryptolaemus montrouzieri*

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

Image Citation: Nijel Cruz

TARGET: Mealybugs, aphids, mites, thrips, whiteflies, and other soft-bodied insect pests.

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

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

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

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

Overnight Shipping Required

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



Cryptolaemus montrouzieri

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

For Indoor Control Of Soil Dwelling Pests!

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

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

SUGGESTED USE (Depending upon level of infestation): Use season-long, in covered crops such as ornamentals, cucumbers, strawberries and mushrooms. Apply directly to growing medium surface. Apply approx. 1-5 predators per sq. ft. For high infestation, increase application rate and consider pairing with another suitable predator or parasite like *S. scimitus*, beneficial nematodes, or specific mite predators.

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

1101329	≈100 Adults	\$17.00
1101330	≈500 Adults	\$54.00
1101331	≈1000 Adults	\$78.00
1101332	≈3,000 Adults	\$170.00

Overnight Shipping Required

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



Dalotia coriaria (= *Atheta coriaria*)

SPECIALISTS

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

Voracious Adults & Larvae Feed On Scale & Other Pests!

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

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

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

Temperature: Moderate 73-86°F **Relative Humidity:** Low-High ≈20-90%

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

Overnight Shipping Required

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



Rhyzobius (= *Lindorus*) *lophanthae*

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

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

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

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

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

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

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

Overnight Shipping Required

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



Stratiolaelaps scimitus (= *Hypoaspis miles*)

PEST INSECT TRAPS



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

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 - Bundle of 2	\$11.50
1280503	Gnat Stix - 12 Per Pack - Bundle of 4	\$20.50

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



Olson Garden Guard Yellow Sticky™ Ribbon

This Ribbon Is Just Right For Encompassing Small Gardens.

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

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

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



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

Pest Wizard Yellow Sticky Traps

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

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

DESCRIPTION: Designed to visually attract insects with this specific and irresistible color, bugs are drawn in and then become hopelessly ensnared by the powerful, yet not messy, glue. These traps are clearly gridded on both sides for easy monitoring. Use the large (5 1/2" x 8") size when you have a greater area to cover and the mini (3 3/4" x 5") for those hard-to-control nooks and crannies. Traps can be used alone or with an added attractant. They are especially effective when used with a pheromone lure to target specific pests. Adhesive can be cleaned off with soap and water.

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



1254205 Mini Yellow Sticky Traps - 5 Pack **\$5.99**
1254206 Mini Yellow Sticky Traps - 5 Pack - Bundle of 3 **\$14.99**
1254207 Mini Yellow Sticky Traps - 5 Pack - Bundle of 5 **\$21.99**
1254255 Large Yellow Sticky Traps - 4 Pack **\$8.99**

Yellow Sticky Trap Ribbon

Positively Identify Your Pests!

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

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

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



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

Yellow Sticky™ Tape

Longer Length Tape To Cover Even More Area.

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

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



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

1259610 Yellow Sticky Tape - 2" wide x 530' long **\$44.00**
1259611 Yellow Sticky Tape - 6" wide x 530' long **\$90.00**
1259612 Yellow Sticky Tape - 10" wide x 530' long **\$125.00**
1259613 Yellow Sticky Tape - 12" wide x 530' long **\$175.00**

*Larger quantities available.

Pest Wizard Assorted Sticky Traps

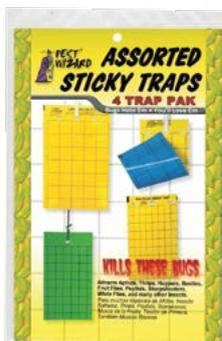
Try This Assortment To Find The Best Sticky Trap For You!

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



Blue Ribbon Sticky Trap

Thrips & Leafminers Love This Pretty Shade Of Blue!

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

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

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

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



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 *Frankiniella*.

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 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



BENEFICIAL NEMATODES

What Are Beneficial Nematodes?

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



How Do Beneficial Nematodes Work?

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



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

Chameleon Adaptable Hose End Sprayer

Get Perfect Application With This Highly Adjustable Sprayer.

DESCRIPTION: Multipurpose sprayer that works great with Beneficial Nematodes (see pages 18-19). This affordable, easy-to-use, light-weight multi-purpose sprayer is perfect for applying your natural biologicals, fertilizers, amendments, insecticides, herbicides & fungicides.

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



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

When & How Often Should Beneficial Nematodes Be Applied?

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

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

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

How Do I Apply Beneficial Nematodes?

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

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

When Will I See Results?

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

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

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



BENEFICIAL NEMATODES

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

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



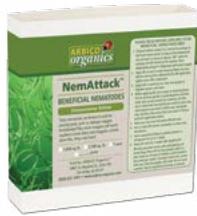
NemaSeek™ *Heterohabditis indica* (Hi) Beneficial Nematodes ▲

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



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

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



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

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



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

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



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

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



NEMATODE VARIETY GUIDE – Choose Variety By Pest

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



Beneficial Nematodes

- ▲ = NemaSeek™ *Heterohabditis bacteriophora* (Hb)
- = NemAttack™ *Steinernema feltiae* (Sf)
- = NemAttack™ *Steinernema carpocapsae* (Sc)
- ★ = NemAttack™ *Steinernema riobrave* (Sr)
- ◆ = NemaSeek™ *Steinernema kraussei* (Sk)
- ◐ = NemaSeek™ *Heterohabditis indica* (Hi)

SINGLE SPECIES		
SKU	Size	Price
▲ NemaSeek <i>Heterohabditis 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
■ NemAttack <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
● NemAttack <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
★ NemAttack <i>Steinernema riobrave</i>		
1220410	≈5 million	\$36.00
◆ NemaSeek <i>Steinernema kraussei</i>		
1220420	≈5 million	\$36.00
1220421	≈10 million	\$42.95
1220422	≈50 million	\$72.00
1220423	≈250 million	\$198.00
1220424	≈500 million	\$270.00
◐ NemaSeek <i>Heterohabditis indica</i>		
1220200	≈5 million	\$36.00

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

SIZE & COVERAGE CHART

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



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

OMRI Listed Beneficial Nematodes



OMRI LISTED SINGLE SPECIES		
SKU	Size	Price
▲ NemaSeek Pro Hb Beneficial Nematodes		
4004010	≈10 million	\$52.00
4004050	≈50 million	\$90.00
4004250	≈250 million	\$250.00
4004500	≈500 million	\$325.00
■ NemAttack Pro Sf Beneficial Nematodes		
4006010	≈10 million	\$52.00
4006050	≈50 million	\$90.00
4006250	≈250 million	\$250.00
4006500	≈500 million	\$325.00

OMRI LISTED SINGLE SPECIES		
SKU	Size	Price
● NemAttack 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, NemAttack Pro Sf Beneficial Nematodes & NemAttack Pro Sc Beneficial Nematodes		
4007010	≈10 mil. per species	\$125.00
4007050	≈50 mil. per species	\$225.00
4007250	≈250 mil. per species	\$630.00
4007500	≈500 mil. per species	\$880.00

*Free shipping in the contiguous 48 United States. 2nd day shipping required for the 5 million - 50 million sizes. Expedited shipping available for an additional fee. The 250 million & 500 million sizes require next day shipping during summer months, 2-day shipping otherwise. Orders ship Monday - Thursday; excluding holidays.

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

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 Bait	\$35.00
1272013	5 Traps plus 10, 3-Month Bait	\$80.00
1272014	10 Traps plus 20, 3-Month Bait	\$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 Bait	\$42.55
1272005	5 Traps plus (10) 2-Month Bait	\$99.00
1272006	10 Traps plus (20) 2-Month Bait	\$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



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

DiPel® Pro DF & DiPel® DF



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

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

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

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



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

Monterey Garden Insect Spray



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

TARGET: Control of foliage feeding worms (caterpillars), leafminers, thrips, fire ants 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

Perma-Guard™ Crawling Insect Control



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

TARGET: Any crawling or hopping pest insect.

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

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

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

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

Case sizes available.

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



Essentria™ G Granular Insecticide

A Granular That Handles A Handful Of Outdoor Pests!

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

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

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

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



Beneficial Nematodes

Combo packs of NemAttack™ & 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 17-19 for more information.**



INDOOR FLEA & TICK CONTROL

Electronic Flea Trap

Great Indoor Flea Control!

TARGET: Monitors and captures fleas.

DESCRIPTION: Each capture pad lasts for approx. three months or until filled with up to 10,000 fleas. Excellent flea control without toxic chemicals! Light and heat attracts fleas 24 hours a day and draws fleas from up to 25 feet away. 6" x 5" capture pad holds up to 10,000 fleas. Attractive, durable, patented design.

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

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



Flea 'n Tick B Gone™

Fast Acting & Easy-To-Use!

TARGET: Owners wanting natural flea control for their pets.

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

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

1452501 Flea 'n Tick B Gone - 16 oz. RTU **\$17.98**

1452502 Flea 'n Tick B Gone - 1 Gallon **\$63.00**



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

BIOLOGICAL GRUB CONTROL

NemaSeek™ Hb Beneficial Nematodes

Beneficial Nematodes are one of nature's most powerful weapons available for managing Japanese Beetle infestations. Along with parasitizing the beetles in their larval, underground damaging stages, they also parasitize the larval states of other pest grubs, weevils, fleas, leafminers and more. Apply with a watering can, hose end sprayer or backpack sprayer. **See pages 17-19 for more information.**

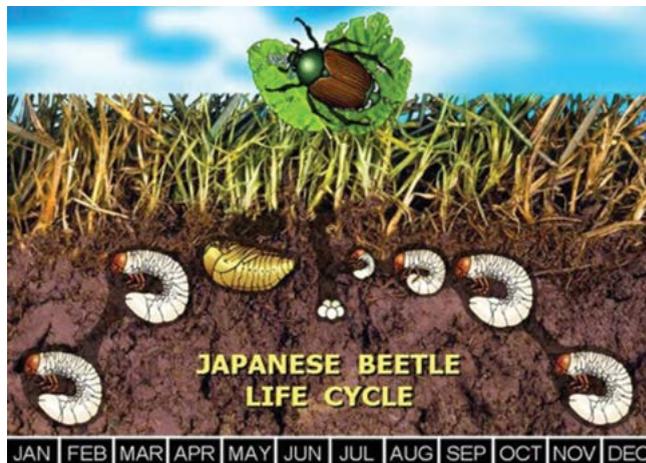


Photo Credit: UNL Entomology Department

Milky Spore Powder

Specific, Long Lasting Larval Control.

TARGET: Japanese beetle grubs.

DESCRIPTION: Contains *Bacillus popilliae* bacterium, lethal to soil-borne grub stages of Japanese beetles. Grubs that normally feed on roots of grass and vegetables will ingest the bacterium, which will cause death in about 1-3 weeks. As grubs decompose they re-release bacteria spores. The spores can remain in the soil for about ten years, and in some cases up to 20 years.

In warmer climates, control can occur in 1-3 years (after one application) and in cooler climates, 3-5 years. Can apply with other fertilizers, will not harm animals and can be applied to food crops. For best results, apply with **NemaSeek Hb Beneficial Nematodes** (see pages 18-19), 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 49). White chalk carries the bacterium, and the resultant treated area should resemble a checkerboard. Water within about 48 hours for about 15-20 minutes to permeate into soil and do not mow or rake until thoroughly soaked.

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

- | | | |
|----------------|---|----------------|
| 1216001 | Milky Spore Powder - 10 oz. - Covers ≈2,500 sq. ft. | \$28.60 |
| 1216040 | Milky Spore Powder - 40 oz. - Covers ≈1/4 acre | \$83.50 |
| 1216050 | Milky Spore Powder - 50 lb. Drum* - Covers ≈4.5 acres | CALL |
| 1216052 | All-Purpose Dispenser Tube | \$14.50 |

*Call for freight quote.

Cannot be shipped to the following states: OR, WA



Where Are Japanese Beetles Found?

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

Milky Spore Granular

A New Formulation For Use In A Drop Spreader

TARGET: Japanese beetle grubs.

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

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

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

*Call for freight quote.

Cannot be shipped to the following states: OR, WA



IV Organic® White Wash



Give Your Trees Year-Round Sun Protection.

TARGET: Use for sun protection on trees and shrubs, including fruit, nut and ornamental trees and roses.

DESCRIPTION: Protect your trees and shrubs from sunburn and sunscald with this easy to use, long-lasting coating. Sun can be debilitating to trees and shrubs; avocado, citrus and new growth are especially susceptible to sun. In winter, warm days followed by freezing nights can lead to sunscald. Also provides an extra layer of protection from phototoxicity when using horticultural oils. Can be brushed on, sprayed on or applied as a tree paste.



SUGGESTED USE: Brush on: 1-2 coats a year. Contents should cover approximately 12 young tree trunks (3 gal. size) with 1 coat. Add water to powder in can & stir. Foliar spray: Use up to 3x yearly. Use 1-2 tps./gal. water. Tree paste: Add 1/4 cup of water to contents & stir well.

1240160	IV Organic White Wash - 1 Pint - White	\$29.95
1240161	IV Organic White Wash - 1 Pint - Brown	\$29.95
1240162	IV Organic White Wash - 1 Pint - Green	\$29.95
1240170	IV Organic White Wash - 1 Gallon - White	\$179.95
1240171	IV Organic White Wash - 1 Gallon - Brown	\$179.95
1240172	IV Organic White Wash - 1 Gallon - Green	\$179.95

Case sizes available.

IV Organic® 3-In-1 Tree Guard Paint

An Organic Pest Control Solution For Your Trees – Easy As 1-2-3!

TARGET: Insect and small animal pests and sun damage to trees.

DESCRIPTION: Trees can easily fall victim to insects, the sun and rodents; this easy-to-use tree paint offers an eco-friendly solution. This paint is made with Neem oil, which deters insects by repelling them, coating and smothering them. Additionally, it's fatal if ingested. This product contains Castor oil, which has a taste that most rodents and other small animals find repugnant. Sunburn and sunscald can cause great stress to a tree and can lead to death. This highly reflective paint will keep a good portion of the sun's damaging rays out. Goes on very easily and requires only one application per year.



SUGGESTED USE: One can contents should cover approximately 12 young tree trunks (3 gal. size) with a single coat. Fill can with powder and oil vial from can, fill with water and stir.

1240100	3-in-1 Tree Guard Paint - 1 Pint White	\$34.95
1240101	3-in-1 Tree Guard Paint - 1 Pint Brown	\$34.95
1240102	3-in-1 Tree Guard Paint - 1 Pint Green	\$34.95
1240115	3-in-1 Tree Guard Paint - 1 Gallon White	\$199.95
1240116	T 3-in-1 Tree Guard Paint - 1 Gallon Brown	\$199.95
1240114	T 3-in-1 Tree Guard Paint - 1 Gallon Green	\$199.95

Case sizes available.



Asian Citrus Psyllid (ACP) Detector

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

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

BioCare® Apple Maggot Trap W/Lures

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

1239205	Trap w/Lures - Pack of 3	\$16.50
1239203	Apple Maggot Lure	\$7.00

BioCare® Codling Moth Trap

Detect & Trap Codling Moths.

1240301	Codling Moth Trap (2 Traps & 2 Lures)	\$8.25
1240297	Codling Moth Trap - (2 Traps & 2 Lures) Bundle of 3	\$27.00
1240298	Codling Moth Trap - (2 Traps & 2 Lures) Bundle of 6	\$51.30
1240299	Codling Moth Trap - (2 Traps & 2 Lures) Bundle of 12	\$92.50

Monterey Citrus Leafminer Trap & Lure

Monitor & Trap Damaging Leafminer Species!

1555638	Monterey Citrus Leafminer Trap & Lure - Pack of 2	\$16.99
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Monterey Peach Tree Borer Trap

An Easy To Install Pheromone Trap Designed To Attract Borers.

1555640	Monterey Peach Tree Borer Trap (2 Traps & 2 Lures)	\$11.50
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Cannot be shipped to the following states: CO, NM

HORTICULTURAL & MINERAL OIL

Monterey Horticultural Oil



Functions As A Fungicide, Insecticide & Miticide!

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

DESCRIPTION: Composed of mineral oil, this product covers 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

Cannot be shipped to the following states: ND, WY

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

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



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

Larger sizes available.

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

Cannot be shipped to the following states: AK, DC

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

*Call for freight quote. Larger sizes available.

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)

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

Ships via Ground ONLY.

REPELLANTS

Summerset® AllGuard™



This Spray Repels Lots Of Insects – & The Rain!

TARGET: For use in repelling listed insects from vegetable gardens, flowers, ornamentals and lawns.

DESCRIPTION: This highly concentrated repellent uses Garlic Juice to fend off insects and keep them away. The natural sulphurs in Garlic Juice are repugnant to the insects that plague plants and trees. There will be a garlic odor when sprayed, but the smell will dissipate in about 30 minutes. Use it on most anything you grow; it won't leave a garlic taste on your crops. SummerSet AllGuard is blended with a rain-resistant additive that will keep the product on the plants and trees. There is no need to use additional adjuvants, stickers or surfactants.

SUGGESTED USE: For preventive treatment: Add 2 oz./gal. water. Make first application at foliar emergence. Repeat every 3-4 weeks. For infestation control: Add 4 oz./gal. Spray every 2-3 days until insects are under control and then maintain on a 3-4 week cycle. For ticks and mosquitoes: Mix 6 oz./gal.

1452610	Summerset AllGuard - 1 quart	\$24.95
1452611	Summerset AllGuard - 1 quart - case of 6	\$125.00



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



BOTANICALS

Guard 'N Spray™



Contains Citric Acid & 3 Botanical Oils For Maximum Pest & Disease Control.

TARGET: Spider mites, broad mites, whiteflies, aphids, fungus gnats, flies, beetles, thrips and powdery and downy mildews.

DESCRIPTION: This OMRI listed spray will treat, manage, eliminate and repel key insect pests. It will also treat and control downy and powdery mildews. This highly-concentrated formula uses a combination of citric acid and 3 botanical oils to suffocate, desiccate and emaciate its targets in all their life stages. Can be used during the vegetative growth stages, but should not be used in mid-to late flowering. Contains no soy or corn oil and indirect contact will not harm beneficial insects.

SUGGESTED USE: Use: Can be applied as a foliar spray or soil drench. Add 15-30 ml./gal. water. 32 oz. concentrate makes about 32 gallons of Guard 'n Spray at full strength of 30 ml./gal. of water. Spray 1-3 x per day depending in infestation level: preventative: 2-3 x daily at 15 ml./gal.; combative: 2-3 x daily at 30ml./gal. For soil drench: dilute at 10-15 ml./gal. and apply directly to root zone.

1458150	Guard 'n Spray - 32 oz. conc.	\$49.99
1458152	Guard 'n Spray - 1 gal. conc.	\$149.99



SNS-217™ and SNS-217C™



These Botanical Extracts Will Not Harm Plants But Are Fatal To Spider Mites.

TARGET: Use to kill and repel adult spider mites and to prevent hatching of their eggs.

DESCRIPTION: Using food grade rosemary extracts and oils, these products will kill adult spider mites and prevent their eggs from hatching. The natural salts and fatty acids derived from the rosemary disrupt the insect cell structure and the permeability of its membranes; this will quickly cause the insect to dehydrate and die. Additionally, once eggs are coated with the oily liquid, their respiration will be blocked and they will perish without hatching. The plant will absorb some of the components of these products, which will form a barrier to any additional mites that may try to feed on it.

SUGGESTED USE: RTU - 4 quarts or 1 gallon solution will cover approximately 550 sq. feet. Concentrate - Mix 21 oz. (approx. 2 3/4 cups) to 26 oz. (3 1/4 cups) of concentrate per gallon of water. For best results use warm (70°F) distilled or chlorine-free water. Mixed solution may be used immediately or stored for up to 2 weeks.

1459120	SNS-217 RTU - 1 quart	\$24.99
1459121	SNS-217 RTU - 1 gallon	\$90.00
1459122	SNS-217C Concentrate - 1 pint	\$68.10
1459123	SNS-217C Concentrate - 1 gallon	\$294.64



NEEM OIL

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



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	\$11.99
1555614	Monterey 70% Neem Oil - 1 Pint Concentrate	\$19.90

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



BONIDE® Neem Oil RTU & Concentrate

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

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

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

SUGGESTED USE:

Insecticide: Mix 2-4 tablespoons (1-2 fl. oz.) per 1 gallon of water thoroughly and spray all plant surfaces, including underside of leaves, until completely wet.

Fungicide: For present disease, use at 7-14 day intervals, and for prevention and continued control use at 14 day intervals.

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

1246602	BONIDE Neem Oil RTU -1 Quart	\$11.89
1246603	BONIDE Neem Oil Concentrate -1 Pint	\$17.98

Cannot be shipped to the following states: DC



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
1457602	SoluNeem 6 oz. Bag (8 ct./1.75 oz. Pouches)	\$275.00

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



AZADIRACTIN

Azadirachtin

Azadirachtin is similar to Neem Oil in that it is derived from the seeds of the neem tree (*Azadirachta indica*). The primary mode of is as an anti-feedant, but it also disrupts normal insect growth/molting, repels larvae and adults, sterilizes adults and deters egg laying. Consider Neem Oil is you need fungicidal properties.

Debug® Turbo

Controls Over 200 Pest Insects, Plant Parasitic Nematodes & Other Plant Pathogens.

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



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

SUGGESTED USE:

Home & Garden

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

Lawn Care

Shake container of Debug Turbo well before use. Add 1-3 oz. of Debug Turbo in a 2 gal. of water. Apply with the Chameleon Adaptable Hose End Sprayer. (See page 55). Mix and spray on 100 sq. ft. of lawn before irrigating. Apply in early morning or late evening with temperatures less than 95°F. Use diluted material, do not save unused mix for later use.

1450500	Debug Turbo - 1 Quart	\$64.25
1450502	Debug Turbo - 1 Gallon	\$260.00

Case sizes available.

Cannot be shipped to the following states: AL, AK, AR, CT, DE, GA, ID, IL, IN, IA, KS, KY, LA, MA, MN, MS, MO, MT, NE, NH, NJ, NM, NY, ND, OH, OK, RI, SC, SD, TN, UT, VT, WV, WY

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.

1222204	AzaGuard - 32 oz.	\$159.00
1222205	AzaGuard - 32 oz. - Case of 4	\$530.00
1222206	AzaGuard - 1 Gallon	\$540.00



AzaSol™

This Non-Oil Based & Water Soluble Powder Controls A Myriad Of Insect Pests.

TARGET: Whiteflies, aphids, caterpillars, mushroom flies, phorid flies, leafminers, mealybugs, psyllids, weevils and many more.

DESCRIPTION: Azasol contains Azadirachtin, a product of the Neem tree. In production, the Neem oil from the seeds of the trees is transformed into a yellowish-white, water-soluble amorphous powder suitable for spraying. When used as directed it is effective on adult insects, larvae and pupae. It will vigorously repel insects, kill them when they come in contact with the spray or feed on sprayed plants and interrupt their life cycles. This powder quickly dissolves in water and won't clog equipment or leave an oily residue or discoloration on plants. Won't burn leaves or block photosynthesis. Can be injected in trees for quick results..

SUGGESTED USE: Apply as a foliar spray or soil drench to soil or soil-less media A wetting agent may be used. To repel adult flies, use fogging equipment. Use from 1-4 tsp./1000 sq. ft depending on pest infestation levels, application method and growing environment. For optimum results, 2-3 applications made at 7-10 day intervals is recommended.

1457620	AzaSol - .25 oz.	\$19.99
1457621	AzaSol - .75 oz.	\$46.99



BEAUVARIA BASSIANA

BioCeres® WP

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

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

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

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

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

Cannot be shipped to the following states: CA



Beauveria bassiana

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

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

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

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

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

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

Application Rates of BotaniGard ES

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

Application Rates of BotaniGard 22WP

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

BotaniGard ES

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

BotaniGard 22WP

1332800 BotaniGard 22WP - 1 lb. Powder **\$88.00**

Case sizes available.

Shipping Restrictions: Cannot ship via US Mail.



Mycotrol® WPO

A New Formulation For A Reliable Favorite!

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

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

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

1332785 Mycotrol WPO - 1 lb. **\$100.00**
1332795 Mycotrol WPO - 1 lb. (Case of 12) **\$1,070.00**

Ships via UPS Ground & FedEx Ground ONLY.



OTHER BIORATIONAL

Grandevo® & Grandevo® WDG



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

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

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

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

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

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



Venerate® XC



This Unique Bioinsecticide Fits In Any IPM & Resistance Management Program (RMP).

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

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

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

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

Cannot be shipped to the following states: CA



Green Cleaner

An Industry Favorite Because It Works So Well!

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

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

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

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|----------------|--------------------------------|----------------|
| 1458050 | 2 oz. - Makes up to 4 Gallons | \$17.99 |
| 1458051 | 4 oz. - Makes up to 8 Gallons | \$27.99 |
| 1458052 | 8 oz. - Makes up to 16 Gallons | \$54.00 |

Larger sizes available.

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



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.

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



PYRETHERINS

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



Monterey Take Down Garden 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 tsp. of concentrate with 1 qt. water or 1 fl. oz. of concentrate with 3 qts. of water. **2% Solution:** Mix 4 tsp. 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 the former PyGanic 1.4. Pyrethrins, the active ingredient here, have been used safely and effectively for millennia. This formulation can be applied in a variety of ways, making it easy to use no matter what size your garden is. Spraying should begin when the insects first appear, not when they are already heavily infested. Thoroughly cover all plant surfaces. This OMRI listed, NOP compliant insecticide can be used throughout your growing season and up to the day of harvest.

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

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



BotaniGard® MAXX

Beauveria bassiana & Pyrethrins Make A Powerful Team!

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

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

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

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

Case sizes available.

Shipping Restrictions: Cannot ship via US Mail.





WHAT ARE FLY ELIMINATORS?

The Sensible Alternative To Pesticides

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

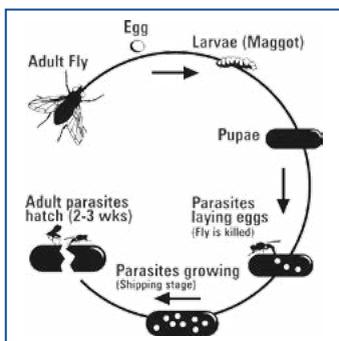


Adult Fly Eliminator emerging from fly pupa.

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

HOW DO FLY ELIMINATORS WORK?

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



Life cycle of the fly parasite.

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

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

Philadelphia Park Recommends ARBICO's Fly Eliminators

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



– Roy Smith, Former Track Manager of Philadelphia Park

WHO USES FLY ELIMINATORS?

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

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

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



HOW DO I USE FLY ELIMINATORS?

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

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



Fly Eliminators and wood shavings in packaging.



Use Your Fly Eliminators the RIGHT Way:

RIGHT Time

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

RIGHT Place

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

RIGHT Amount

- ✓ The more Fly Eliminators, the fewer the flies

RIGHT Schedule

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

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

LOCK IN SPECIAL EARLY BIRD PRICES FOR 2019 PROGRAMS!

Sign up by April 30, 2019!

Only \$18.95*

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

Number of Horses/Animals	Suggested Units [†]	Early Bird Special Price!*	Price After April 30 [™]
1	1/4 Unit	\$15.95	\$18.95
2 - 5	1/2 Unit	\$18.95	\$21.95
6 - 10	1 Unit	\$28.95	\$32.95
11 - 15	1 1/2 Units	\$38.95	\$43.95
16 - 20	2 Units	\$50.95	\$57.95
21 - 25	2 1/2 Units	\$62.95	\$71.95
26 - 30	3 Units	\$72.95	\$83.95
31 - 35	3 1/2 Units	\$82.95	\$95.95
36 - 40	4 Units	\$90.95	\$106.95
41 - 45	4 1/2 Units	\$99.95	\$118.95
46 - 50	5 Units	\$100.95	\$121.95
51 +	Please Call 1-800-827-2847		

***Order Your Fly Control Program Today!
Early Bird Offer Expires April 30, 2019**

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

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

[†]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. © 2019 Arizona Biological Control, Inc.

BIOLOGICAL MAGGOT CONTROL

Sc Beneficial Nematodes



Add Beneficial Nematodes For Ultimate Fly Control!

TARGET: Fly maggots and other subterranean pests.

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



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 19 for free shipping details.

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

MANURE MANAGEMENT

EM•1® Microbial Inoculant



Faster Breakdown Of Organic Matter.

TARGET: Accelerate decomposition & reduce odors.

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

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



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

Call for larger sizes.

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

SCD Probiotics Barn Kleaner

Great For Manure Odor & Decomposition!

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

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



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

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

Case sizes available.

balEnce™ Fly Spray

An Easy-To-Use Beneficial Insecticidal Spray To Fight Flies!

TARGET: Larval and adult flies.

DESCRIPTION: This EPA approved biological insecticide is suitable for organic programs. Consists of a liquid suspension of beneficial entomopathogenic fungi known as *Beauveria bassiana*. The fungus acts as a parasite on flies, causing white muscardine disease. When the microscopic spores of the fungus come in contact with the body of an adult or larval stage of a fly, they germinate, penetrate the cuticle and grow inside, killing the fly within a matter of days. Soon after, a white mold emerges from the cadaver and produces new spores that continue to infect more flies. After application, adult flies and fly larvae die in 24 to 72 hours. Product will continue to remain viable on residual surface areas for up to about 21 days.



SUGGESTED USE: Apply to animal rearing sites, housing and holding areas and manure piles. The 15 oz. container treats up to about 50,000 sq. ft. Apply using a backpack sprayer or fogging equipment. Use no more than 60 oz. per building/area per week. For best results, turn fans off or to lowest level in order to ensure maximum surface area coverage. Can be used in colder months to help curtail impending spring fly blooms. Check for evidence of reduced populations of fly pupae in manure and other breeding areas following application 21 to 35 days or up to 90 days in cooler temperatures.

1272100	balEnce Fly Spray - 15 oz. Bottle	\$116.00
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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.	\$25.99
1108902	Espree Aloe Herbal Horse Spray - 1 Gallon Conc.	\$68.99



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

Volume Pricing!

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

Replacement parts available online.

*FREE SHIPPING via ground or US Mail ONLY.

ARBICO Organics™ Holistic Fly Defense

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

TARGET: Repels flies, mosquitoes and gnats.

DESCRIPTION: Holistic Fly Defense is a long lasting herbal blend of natural botanicals that repel insects. This non-staining formula will leave no oily residue. **Active ingredients:** Lemongrass oil, geranium oil, geraniol, citronella oil, sodium lauryl sulfate, potassium sorbate.

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

1108702	Holistic Fly Defense - 32 oz. Concentrate	\$28.00
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Cannot be shipped to the following state: AL



BIOLOGICAL CONTROL

Mosquito Bits®

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

TARGET: Mosquitoes and Fungus Gnats

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

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



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

Mosquito Dunks®

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

TARGET: Mosquitoes

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

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



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

AQUABAC® 200G Granular Bti Mosquito Control



Use This Bti Larvicide Wherever You Have Mosquitoes Breeding

TARGET: Larval stages of mosquitoes and black flies.

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



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

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

AQUABAC® Xt



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

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

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



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

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

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

This product cannot be shipped to the following state: NY

REPELLENTS

Natular® DT



These Easy-to-Use Fizzy Tablets Kill Mosquito Larvae For 60 days!

TARGET: Use to kill the larvae of container breeding mosquitoes, e.g., *Aedes aegypti* and *Aedes albopictus*.

DESCRIPTION: Use this Spinosad-based product to kill mosquito larvae in standing water. These small bi-layer tablets use a dual-release action to ensure a quick kill and continuous control. The first layer is effervescent and will bubble up, dissolve and spread within 60 seconds and begin killing larvae within 24 hours. The second layer dissolves more slowly over the next 60 days. Can be applied to sites that contain fish and plants. Poses no threat to honeybees and other beneficials. Tablets may be cut in half for use in smaller areas.



SUGGESTED USE: Use 1 tablet to treat up to 50 gallons (192 liters) or 25 sq. ft. For continuous action, keep tablet immersed in water. Can be allowed to dry and rewet for use in sites that intermittently fill with water. Reapply after 60 days. Can be applied as a preventative action (pre-flood treatment) before sites fill with water.

- 1211250 Natular DT - 60 day tablet - 12 ct. package **\$11.75**
- 1211252 Natular DT - 60 day tablet - 12 ct. kg/case of 50 **\$471.25**

Natular® G30 WSP



An exceptional larvicide in convenient water soluble pouches.

TARGET: Most common vector and nuisance mosquitoes, including *Aedes*, *Anopheles* and *Culex*.

DESCRIPTION: Using Spinosad as an active ingredient, Natular G30 WSP is an extremely effective and easy-to-use mosquito larvicide. Spinosad is a potent nerve agent that provides exceptional control from the 1st-4th instar stages of larval. It is highly selective to insects, so there is very low toxicity to mammals, other non-target organisms, honeybees and beneficials. This eco-friendly formulation breaks down quickly in the soil and degrades rapidly in sunlight. Each pouch contains 10 grams of product and will dissolve quickly in water. These lightweight pouches come in a convenient re-sealable bag, so you can easily reach in and get just what you need.



SUGGESTED USE: Apply 1 or 2 pouches per listed site per 100 sq. ft. (up to 2 feet in depth), or 1 pouch per 750-1500 gallons. Use entire contents of water soluble pouch, do not break open or use partial contents of a pouch. Reapply after 30 days. More frequent applications may be made when conditions warrant. For applications in storm or water drainage areas, sewers and catch basins, place 1 or 2 pouches into each catch basin. For applications to small contained site (less than 100 sq. ft), use 1 single pouch per site.

- 1211255 Natular G30 WSP - single - 10 g pouches/50 ct. **\$69.75**
- 1211257 Natular G30 WSP - 10 g pouches/50 ct./case of 10 **\$685.50**

Cannot be shipped to the following states: AK, CT, IA, MD, ME, MI, NC, NH, RI, SD, VT, WI

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 quart treats up to 32,000 sq. ft. and 1 gallon treats up to 128,000 sq. ft.

- 1211140 Mosquito Magician - 16 oz. Concentrate **\$22.99**
- 1211141 Mosquito Magician - 32 oz. Concentrate **\$39.99**
- 1211142 Mosquito Magician - 1 Gallon Concentrate **\$99.99**
- 1211144 Large-sized Battery Sprayer w/1 Quart Concentrate **\$79.99**

PERSONAL REPELLENTS

Aunt Fannie's Mosquito Spray



Tough On Mosquitoes But Gentle Enough To Use On Your Kids.

TARGET: For use as a topical mosquito repellent on children (6 months of age or older) and adults.

DESCRIPTION: The 5 essential oils in this spray (soybean, cedarwood, peppermint, lemongrass & geranium) will gently coat you in a light, wonderfully fragrant mist that will keep working up to 4 hours. Although, the oils are non-irritating to most skin, there is a small chance of an allergic reaction for some people. When applying to children, do not apply to hands. This bottle has a head that will dispense a fine mist for a nice, long spray at any angle (even upside down). DEET-free and contain no dyes, phenols, formaldehyde, neonicotinoids or pyrethrins.

SUGGESTED USE: Spray evenly over exposed skin every 4 hours. Use adult supervision when applying to children. Avoid contact with eyes and mouth.



1280681 Aunt Fannie's Mosquito Spray - 150 ml **\$10.99**

Aunt Fannie's Mosquito Wipes



A Deet-Free Mosquito Repellent Wipe That Is Perfect For On-The-Go!

TARGET: Repels mosquitoes, gnats, black flies and other biting insects.

DESCRIPTION: These insect repellent wipes have a delightful scent, which comes from the fragrant botanical oils they're made of: citronella, peppermint, cedar, lemongrass and geranium. Each towelette comes in an individually wrapped packet that is easy to slip into a purse, pocket, diaper bag or backpack. These wipes are 100% biodegradable, made from unbleached material, non-irritating, non-staining and DEET-free. They contain no dyes, phenols, formaldehyde, neonicotinoids or pyrethrins.

SUGGESTED USE: Apply evenly to exposed skin every 2-3 hours. Product can be applied to clothing. Use adult supervision when applying to children and do not use on children under 6 months old.



1280670 Mosquito Wipes - 10 Towlettes **\$9.99**
1860675 Mosquito Wipes - Case of 12/10-Packs **\$95.00**

Mosquitoes Transmit Serious Disease



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

Dogs and Cats: Dog Heartworm

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

Livestock: Encephalomyelitis, Anaplasmosis, Swamp Fever, Fowlpox

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.

1212006 Chig-R-Blok - 2 oz. Balm **\$9.99**
1212005 Chig-R-Blok - 2 oz. Oil **\$10.49**
1212004 Chig-R-Blok - 4 oz. Oil **\$14.99**

PERSONAL REPELLENTS

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.

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

Bug Bam! Mosquito Band®, Camp Grids & Pet Tags

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

TARGET: Mosquitoes, fleas and ticks.

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



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

1211700	Bug Bam! Mosquito Band - 2 Pack	\$5.00
1211703	Bug Bam! Mosquito Band - 2 Pack - Bundle of 10	\$36.00
1211702	Bug Bam! Mosquito Band - 2 Pack - Case of 24	\$84.00
1211809	Bug Bam! Mosquito Grid - 1 Pack	\$6.00
1211812	Bug Bam! Mosquito Grid - Bundle of 5	\$25.00
1211813	Bug Bam! Mosquito Grid - Bundle of 10	\$45.00
1211811	Bug Bam! Mosquito Pet Tags - 2 Pack	\$7.00
1211816	Bug Bam! Mosquito Pet Tags - 2 Pack - Bundle of 5	\$30.00
1211817	Bug Bam! Mosquito Pet Tags - 2 pack - Bundle of 10	\$55.00

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.

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

Bug Bam! Mosquito Roll-On™



Protect Yourself From Blood-Sucking Pests With This Eco-Friendly, Lemony-Fresh Roll-On!

TARGET: Repels mosquitoes, fleas, ticks, gnats and other flying, biting insects

DESCRIPTION: Ditch the nasty, chemical-smelling insect repellents and use this lemony repellent to roll on DEET-free protection from annoying and dangerous biting, flying insects. This convenient roll-on allows you to control where and how much you apply, for targeted personal control. Made with an organic, non-GMO soy bean oil base and fragrant botanical oils, (including citronella, geranium, lemongrass and peppermint oils) this scientifically tested and proven formula is a great choice for any outdoor activity. Each application provides up to 3 hours protection.

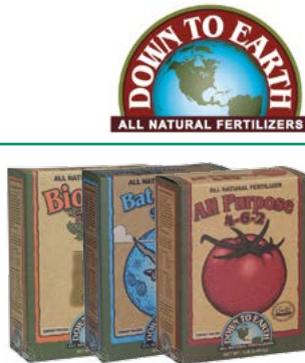


SUGGESTED USE: Shake bottle for 3-4 seconds before opening and then remove cap. Place roller on exposed skin and apply liberally to any exposed areas. Replace cap when not in use. Reapply every 3 hours as needed.

1211720	Bug Bam! Mosquito Roll-On, 3 oz.	\$9.00
1211721	Bug Bam! Mosquito Roll-On, Bundle of 3	\$24.00

Down To Earth™

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



Neptune's Harvest

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



JH Biotech, Inc.

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



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 Smart Soil Solutions

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



Spiked Soil

Spiked Soil has everything you need for optimum results, without the hassle and expense of mixing different products. Developed by horticulture professionals with 30+ years of experience, Spiked Soil has created the ultimate plant cocktails. These three unique concoctions supply all you need every step of the way.



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.



Sustane

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



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 nematicidal 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™ 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™ 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™ 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

Inocucor™ Garden Solution



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

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

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

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



1202150	Inocucor Garden Solution – 1 Liter	\$25.25
1202151	Inocucor Garden Solution – 1 Gallon	\$63.00
1202153	Inocucor Garden Solution – Case of 2, 2.5 Gallons	\$175.00
1202155	Inocucor Garden Solution – 55 Gallon Drum*	CALL

*Call for freight quote.

Earth Alive™ Soil Activator™



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

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

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

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

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

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



EM•1® Microbial Inoculant



Faster Breakdown Of Organic Matter.

TARGET: Accelerate decomposition & reduce odors.

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

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



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

Call for larger sizes.

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

Simply Silica, 0-0-.5



Get Improved Yields & Vigorous Growth In Any Growing Media.

TARGET: Crops grown indoors, outdoors and in hydroponics.

DESCRIPTION: Adding Silica to your plants offers numerous benefits; this is especially true in hydroponics, where plants have no soil to draw Silica from. It can increase growth rate by encouraging the development of cells, improve uptake of nutrients, provide more robust resistance to environmental stressors, improve use of CO2 and increase chlorophyll levels, strengthen resistance to pests and diseases, limit transplant shock and extend the life of cut flowers and plants. Simply Silica can (and should) be added to any fertilizer regime. For best results, add some with every single feeding throughout the growing cycle.

SUGGESTED USE: Use to improve plants' growth and natural defenses to environmental stresses.

1308330	Simply Silica, 0-0-.5 - 8 oz.	\$12.50
1308331	Simply Silica, 0-0-.5 - 32 oz.	\$25.00
1308332	Simply Silica, 0-0-.5 – 1 gal.	\$60.00

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



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

*Free shipping in the contiguous 48 United States via USPS mail.

Cannot be shipped to the following states: HI



Great White® Premium Mycorrhizae

Promote Strong Root Systems, While Reducing Water & Fertilizer Needs!

Target: Use for seed starts, transplants and plants suffering from stress, low yields and poor health.

Description: Great White Premium Mycorrhizae is a concentrated formula that boosts nutrient and water absorption generating root development, plant growth and yield. Water soluble, this product is easy to apply and will quickly begin interacting with plants. It features:

- 15 different species of various endo and ectomycorrhizal
- 14 different species of beneficial bacillus bacteria
- 2 species of trichoderma (commonly found to help fight against fungal diseases, i.e., *Sclerotinia sclerotiorum*, *Botrytis*, *Fusarium*, and *Penicillium*)
- Plant vitamins

Suggested Use: For hydroponic, drenching or injection applications, mix at a ratio of about 1 tsp. /2 gal. of water or ≈ 1 part/2 parts water.

2000064	Great White Mycorrhizae - 1 oz.	\$13.95
2000065	Great White Mycorrhizae - 4 oz.	\$34.95
2000066	Great White Mycorrhizae - 8 oz.	\$63.95
2000067	Great White Mycorrhizae - 32 oz.	\$199.99
2000072	Great White Mycorrhizae - 5 lbs.	\$380.70

Cannot be shipped to the following states: HI, IL, OK, SD, PR



Plant Success Organics Granular™, 3-1-2



Create A Living Soil With this Team Of Mycorrhizae, Beneficial Bacteria & Fertilizer.

TARGET: New plantings in a variety of soils and climates.

DESCRIPTION: Carefully crafted from mycorrhizae, bacteria, trichoderma and an all-purpose fertilizer, this granular formula will build a microbial system on and around plant roots while feeding the beneficial organisms. Root colonization encourages stronger and quicker root growth, increases water and nutrient uptake and creates a healthy soil that can better fight off soil-borne diseases. Apply by simply sprinkling into plant hole, or by mixing with soil, and see fast-growing, heartier plants in no time.

SUGGESTED USE: Spread the granular at the bottom of the planting hole. When filling the planting hole, spread product in close proximity to the roots. Amounts needed: seed (4" pot): 1/4 tsp., 1 gal. container: 1 tsp., 3 gal.: 4 tsp., 5 gal.: 2-4 Tbsp., 1" caliper stem: 4-6 Tbsp., 2" caliper stem: 5-8 Tbsp. When mixing into potting soil or soilless media, use 4-6 oz./2.5 cu. ft. of soil.

2000068	Plant Success Organics Granular - 4 oz.	\$6.99
2000069	Plant Success Organics Granular - 1 lb.	\$19.99



Down To Earth™ Bio-Live, 5-4-2



This Product Has It All – Including Mycorrhizal Fungi!

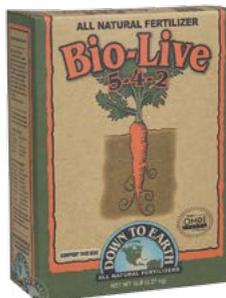
TARGET: Soils depleted of both nutrients and beneficial microbial activity.

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.	\$16.59
1300261	Down To Earth Bio-Live - 25 lbs.	\$59.99
1300262	Down To Earth Bio-Live - 50 lbs.	\$97.69

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





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.) **\$24.95**
- 1332712** John & Bob's Maximize - 32 lbs. (treats ≈4,000 sq. ft.) **\$74.95**



John & Bob's Penetrate Organic Liquid Biotiller

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

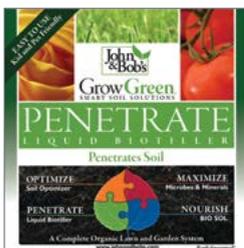
TARGET: Helps break up hard, compacted clay soils and re-energizes and opens up hard, dry, lifeless soil.

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. **\$24.95**
- 1332717** Penetrate Organic Liquid Biotiller - 32 oz. **\$64.95**



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.) **\$19.95**
- 1332708** Optimize Soil Optimizer - 6 lbs. (treats ≈2,000 sq. ft.) **\$29.95**
- 1332709** Optimize Soil Optimizer - 12 lbs. (treats ≈4,000 sq. ft.) **\$54.95**
- 1332710** Optimize Soil Optimizer - 42 lbs. (treats ≈14,000 sq. ft.) **\$85.00**



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.) **\$22.95**
- 1332714** Nourish-Biosol - 24 lbs. (treats ≈4,000 sq. ft.) **\$59.95**
- 1332715** Nourish-Biosol - 55 lbs. (treats ≈10,000 sq. ft.) **\$99.95**



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

HEALTHY SOIL RECIPE

Everything You Need To Get Your 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:

- 16 oz. EM•1 Microbial Inoculant (beneficial microbes)
- 1 Quart Nitron Formula A-35 Micro-Nutrients (enzymes to increase absorption)
- 1 Quart 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)

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



The Best Of Both Products For A Complete Fertilization Program.

TARGET: All types of plants and crops.

DESCRIPTION: Increase yields and improve shelf life of fruits and vegetables. Flowers and foliage will be stronger and more colorful. Great for hydroponics.

1315012	1 Pint	\$11.99
1315011	1 Quart	\$16.99
1315013	1 Gallon	\$39.99
1315014	5 Gallons	\$145.00
1314950	55 Gallon Drum*	CALL

Call for larger sizes. *Call for freight quote.

This product cannot be shipped to the following states: AK, HI



Neptune's Harvest Fish Fertilizer 2-4-1



Versatile Without Unpleasant Odors!

TARGET: Soils requiring rapid nourishment.

DESCRIPTION: Nitrogen and other nutrients are chelated, so they are readily available. Unlike fish emulsions, Neptune's Harvest retains the fish proteins and oils and has no unpleasant odor.

1315001	1 Pint	\$10.99
1315000	1 Quart	\$15.99
1315002	1 Gallon	\$36.00
1315003	5 Gallons	\$130.00
1314930	55 Gallon Drum*	CALL

Call for larger sizes. *Call for freight quote.

This product cannot be shipped to the following states: AK, HI



Neptune's Harvest Seaweed Plant Food 0-0-1

Contains Over 60 Naturally Occurring Nutrients & Amino Acids!

TARGET: Plants and crops exposed to stress.

DESCRIPTION: Enhances plant development, color and vigor. Increases plant hardiness and resistance to adverse conditions, such as early frost, extreme heat and lack of moisture. Can be used as a seed inoculant, increases and accelerates germination, for rapid development of a healthy root system.

1315008	1 Pint	\$10.99
1315007	1 Quart	\$14.99
1315009	1 Gallon	\$34.99
1315010	5 Gallons	\$130.50
1314940	55 Gallon Drum*	CALL

Call for larger sizes. *Call for freight quote.

This product cannot be shipped to the following states: AK, HI



FERTILIZERS



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. \$4.49
- 1300201 Down To Earth Acid Mix - 6 lbs. \$11.79

Larger sizes available - please go online or call.

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. \$4.49
- 1300301 Down To Earth Blood Meal - 5 lbs. \$20.99
- 1300302 Down To Earth Blood Meal - 20 lbs. \$62.29
- 1300303 Down To Earth Blood Meal - 50 lbs. \$121.19

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. \$14.39
- 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. \$15.79
- Larger sizes available - please go online or call.

DTE Fish Bone Meal, 3-16-0



Marine Based Bone Meal For All Of Your Growing Needs.

- 1300270 Down To Earth Fish Bone Meal Mini - 1 lb. \$4.49

DTE Kelp Meal, 1-0.1-2



Down To Earth's Kelp Meal Revitalizes Your Soil & Rejuvenates Your Plants With The Potassium They Need!

- 1300280 Down To Earth Kelp Meal Mini - .5 lb. \$4.49

DTE Langbeinite, 0-0-22



Potassium, Magnesium & Sulfur In One Mineral Application.

- 1300263 Down To Earth Langbeinite - 5 lbs. \$13.39

DTE Neem Seed Meal, 6-1-2



Another Outstanding Product From The Well-Loved Neem Tree.

- 1300267 Down To Earth Neem Seed Meal - 5 lbs. \$17.99
- 1300268 Down To Earth Neem Seed Meal - 20 lbs. \$50.89

DTE Rock Phosphate, 0-3-0



Dose Your Soil With This Before Planting – Your Plants Will Love You For It.

- 1300269 Down To Earth Rock Phosphate - 5 lbs. \$11.39

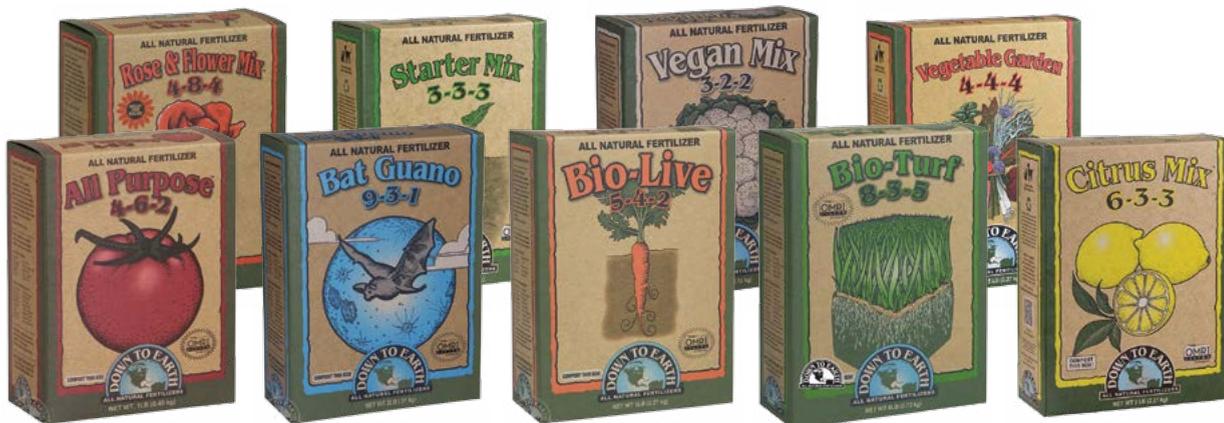
DTE Seabird Guano, 0-11-0

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. \$42.09

Larger sizes available - please go online or call.

See online for shipping restrictions.



DTE All Purpose Mix, 4-6-2



Fertilizer For All Of Your Growing Needs!

1300209	Down To Earth All Purpose Mix Mini - 1 lb.	\$4.49
1300207	Down To Earth All Purpose Mix - 6 lbs.	\$11.79

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.	\$4.49
1300001	Down To Earth Bat Guano - 2 lbs.	\$13.39
1300002	Down To Earth Bat Guano - 10 lbs.	\$37.29

DTE Bio-Live, 5-4-2



A Microbe-Rich Fertilizer To Help Build Living Soil!

1300260	Down To Earth Bio-Live - 5 lbs.	\$16.59
1300261	Down To Earth Bio-Live - 25 lbs.	\$59.99
1300262	Down To Earth Bio-Live - 50 lbs.	\$97.69

DTE Bio-Turf, 8-3-5



Down to Earth Bio-Turf Is Great For Lawns & Gardens!

1300213	Down To Earth Bio-Turf - 6 lbs.	\$16.59
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Larger sizes available - please go online or call.

DTE Citrus Mix, 6-3-3



The Nutrients You Need For Vibrant & Delectable Citrus!

1300295	Down To Earth Citrus Mix - 1 lb.	\$4.49
1300296	Down To Earth Citrus Mix - 5 lbs.	\$11.79

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.	\$4.49
1300231	Down To Earth Rose & Flower Mix - 6 lbs.	\$11.79

Larger sizes available - please go online or call.

DTE Starter Mix, 3-3-3



Feed Your Young Plants Well With This Nutrient & Mycorrhizae Mix.

1300264	Down To Earth Starter Mix - 1 lb.	\$4.49
1300265	Down To Earth Starter Mix - 5 lbs.	\$12.39

DTE Vegan Mix, 3-2-2



A Veganic Fertilizer From Down To Earth For All Your Growing Needs!

1300237	Down To Earth Vegan Mix - 6 lbs.	\$11.79
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Larger sizes available - please go online or call.

DTE Vegetable Garden, 4-4-4



Give Your Vegetable Garden A Powerful Nutrient Boost!

1300299	Down To Earth Vegetable Garden - 5 lbs.	\$11.79
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See online for shipping restrictions.

SOIL CONDITIONING



Nitron's Thatch Away

Want A "Thatch-Free" Lawn?

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

Down To Earth™ Bio-Turf, 8-3-5

Boost Your Lawn's Health with Needed Nitrogen & More!

1300213	Down To Earth Bio-Turf - 6 lb. Box	\$16.59
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Neptune's Harvest Turf Formula Fertilizer, 2-0-2

This Nutrient Rich Fertilizer Adds Vigor To Lawns & Gardens!

1314994	Neptune's Harvest Turf Formula Fertilizer - 1 Gal. Jug	\$45.00
1314998	Neptune's Harvest Turf Formula Fertilizer - 5 Gal. Pail	\$170.00

PEST CONTROL



Garlic Barrier®

Protect Your Plants With Garlic!

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

See page 26 for more information.



Milky Spore Powder

Specific, Long Lasting Larval Control.

1216001	Milky Spore Powder - 10 oz. - Covers ≈2,500 sq. ft.	\$28.60
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See page 23 for more information.



Perma-Guard™ Crawling Insect Control

Diatomaceous Earth Insecticide That Really Does The Job!

1218250	Perma-Guard Crawling Insect Control - 2 lb. Bag	\$10.15
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See page 22 for more information.

BENEFICIAL ORGANISMS



EM•1® Microbial Inoculant

Faster Breakdown Of Organic Matter.

1202098	EM•1 Microbial Inoculant - 16 oz.	\$26.00
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See page 42 for more information.



ARBICO Organics™ Root Build 240™

Mycorrhizal Fungi With 240 Spores/gr To Maximize Root Colonization.

1135001	ARBICO Organics Root Build 240 - 1 oz.	\$9.00
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See page 43 for more information.



Inocucor Garden Solution®

Stimulate Root Growth & Boost Yields.

1202150	Inocucor Garden Solution - 1 Liter	\$25.25
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See page 42 for more information.



TOOLS

Brandt® Organics SKH Sticker



Keep Your Sprays On Your Plants With This OMRI listed Sticking Agent.

DESCRIPTION: Brandt Organics SKH Sticker is a mineral-based premium sticker for foliar applications in high moisture conditions that contains an ingenious combination of Bentonite, Lactose and Casein. It will improve the effectiveness and increase the longevity of insecticides, insect growth regulators, nutritional sprays, fungicides and herbicides. Specially formulated to stand up to moisture, this product will resist rain and irrigation run-off and effectively adhere sprays to their target.



SUGGESTED USE: Product is compatible with most agricultural chemicals. However, if the desired combination has not been previously used, a compatibility test is recommended. For ground applications with (a) insecticides and insect growth regulators use 3/4 lb. per 100 gallons of spray solution, (b) fungicides and herbicides: use 1-2 lbs. per 100 gallons of spray solution. For aerial applications use 2-3 lbs./acre in a minimum of 10 gallons of spray solution. If higher rates are recommended by a pesticide label, follow those label directions.

1440100	Brandt Organics SKH Sticker - 5 lbs.	\$14.50
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Cannot be shipped to the following states: AR, HI, ID, KY, MS, TN, UT, WA, WV, WY

Chameleon Adaptable Hose End Sprayer

Get Perfect Application With This Highly Adjustable Sprayer.

DESCRIPTION: Multipurpose sprayer that works great with Beneficial Nematodes (see pages 17-19). This affordable, easy-to-use, light-weight multi-purpose sprayer is perfect for applying your natural biologicals, fertilizers, amendments, insecticides, herbicides & fungicides.

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



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

WeedGuardPlus® Organic - Sheets & Circles



A Simple Solution To Stop A Vexing Problem Before It Starts.

TARGET: Use for weed suppression.

DESCRIPTION: There is no easier way to control weeds and pamper your plants than with these simple square (24" x 24") sheets and (18" x 18") circles. These 100% biodegradable, organic protective wraps fit around the base of individual plants to block encroaching weeds and give your plants the best environment to thrive. Each shape has a pre-cut slit to make it a snap to place around your plants. The squares have a center "X" cut for easy adjusting while the circles have a hole cut in the middle. No need to remove after the end of your growing season, simply till under or leave them to disintegrate where they are; either way provides additional organic material for your soil.



SUGGESTED USE: Use in production agriculture, landscaping, habitat restoration, reforestation, hoop houses, high tunnels, home gardens, urban farms and more.

1453840 24" x 24" heavy wt. folded sheets - single pack (25 ct.) **\$9.99**
1453842 24" x 24" heavy wt. folded sheets - case of 8 packs **\$63.50**
1453845 18" x 18" heavy wt. circles - case of 50 sheets **\$21.99**

WeedGuardPlus® Organic - Heavy Weight Rolls



This Tough Weed Block Will Hold Up Under The Elements!

TARGET: Use for weed suppression.

DESCRIPTION: This paper weed block is adaptable to nearly any size growing operation in nearly any environment. 100% biodegradable; no need to remove it. Saves time; just lay it down before planting and save yourself countless hours of weeding, spraying or disposing of materials. Or apply it right on top of existing weeds and/or invasive plant roots and smother them out. Saves money; no need to buy expensive herbicides. Improves yields; your plants will have a chance to establish themselves without competing with weeds. Porous yet strong; so plants can be watered by natural rainfall or by other means. Allows air flow, to overheating by the sun. Maintains this porosity through all but the most severe of weather. Can be applied by machine or by hand; the creped version is highly flexible and best for machine applications. These rolls are excellent for textured soils and/or those projects that are meant to be long-term. 54% heavier than the standard rolls and offers 12+ months of weed control.



SUGGESTED USE: Put in place before you install transplants or seedlings, or before you sow seeds. Simply prepare the ground, place over the soil, and cover the edges with dirt. Product may be affected by variances in weather or soil conditions.

1453851 Heavy Weight - Smooth Finish - 36" x 100' **\$24.99**
1453852 Heavy Weight - Smooth Finish - 48" x 100' **\$32.99**
1453853 Heavy Weight - Smooth Finish - 36" x 100' **\$30.99**

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 23).



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

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

ThermX™ -70 Natural Wetting Agent



Overcome Adverse Water Conditions!

TARGET: Increases water & fertilizer uptake.

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



SUGGESTED USE:

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

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

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

*Call for freight quote. Call for larger sizes.

PRE-EMERGENTS

Sustane® Spring Weed & Feed, 9-0-0



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

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

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

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

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



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**



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

Easy-To-Applly 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**



SELECTIVE

BONIDE® Weed Beater® Fe RTU

Kill Just The Weeds, Not The Lawn!

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

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

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

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

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

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



BROAD SPECTRUM

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

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



1453775	BONIDE Burnout - 1 Quart Concentrate	\$21.00
1453776	BONIDE Burnout - 1 Gallon Concentrate	\$48.00
1453777	BONIDE Burnout - 2.5 Gallons Concentrate	\$99.00
1453778	BONIDE Burnout - 1 Quart RTU	\$11.50
1453779	BONIDE Burnout - PNS 1.33 Gallon RTU	\$42.00

BioSafe Weed Control



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

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

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

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



1453821	BioSafe Weed Control - 32 oz. Concentrate	\$21.99
1453822	BioSafe Weed Control - 1 Gallon Concentrate	\$69.99

Phydura™



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

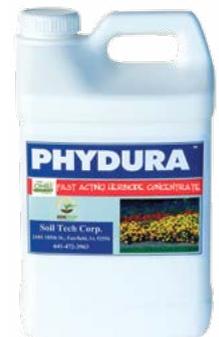
TARGET: Unwanted leaves and grasses.

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

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

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

Larger sizes available.





Disease Control

Bacteria: Plant diseases caused by bacteria are not as prevalent as those caused by fungi, but can nonetheless be damaging. Common plant bacterial diseases include bacterial leaf spot, some blights and citrus greening (Huanglongbing). The damage caused by bacterial infection results primarily in the rotting of the plant tissue, but can exhibit symptoms like gall production, cankers, scabs and unsuitable crop harvest.

Fungi: Fungi, along with bacteria, serve as the planet's main decomposers by breaking down organic material and many form symbiotic relationships with plants; however, the parasitic relationship some fungi develop with plants (e.g. rusts, fungal leaf spot, powdery mildew, etc.) can damage the plants and it is important to have a proper fungicide to minimize those effects.

Viruses: Viruses in plants are transmitted most often by sucking insects such as aphids, psyllids and whiteflies. Infected plants typically become partially damaged and weakened; however, some viruses will kill the plant.

RootShield® Plus Granules & RootShield® Plus WP



Use This Biological Fungicide To Eliminate Hard To Control Diseases!

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

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



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

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

1332754	RootShield Plus Granules - 10 lb. Box	\$188.00
1332755	RootShield Plus Granules - 40 lb. Bag	\$415.00
1332756	RootShield Plus WP - 1 lb. Bag	\$118.00
1332757	RootShield Plus WP - 3 lb. Box	\$255.00

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

PreFence™ Biofungicide



Prevent And Control Fungal & Mold Diseases On Agronomic, Vegetable & Ornamental Crops.

TARGET: For use to control wilt and rot diseases such as *Fusarium*, *Rhizoctonia*, *Pythium* and *Phytophthora*.

DESCRIPTION: OMRI listed PreFence contains mycelium and spores from a naturally occurring bacterial strain derived from Sphagnum peat. This bacterium encapsulates disease spores and stops them from causing devastating plant disease. In addition to controlling wilt and root diseases, it is also an exceptional tool to curb damping-off in propagation. It is most effective when used preventively before diseases have taken hold.

SUGGESTED USE: Can be dry mixed in potting soils, applied to soil, used for seed treatment or mixed with water for a dip, turf, spray or drench application. To make a suspension of water, mix in a small volume of water (such as 0.25-1.0 gal.) and let stand for approximately 30 minutes. Agitate as needed to evenly disperse PreFence before diluting to final volume (between 0.5-3 pints of water/100 sq. ft.).



1332850	PreFence Biofungicide - 5 grams	\$24.00
1332851	PreFence Biofungicide - 25 grams	\$87.00
1332852	PreFence Biofungicide - 100 grams	\$315.00

Cannot be shipped to the following states: AK, DC, IA, ID, IL, KS, KY, MD, MS, ND, NE, NH, SD

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, peachay, rice, mushrooms, kiwi, tobacco, barley, oats, lemon, apple and chickpea. Not for use on aquatic crops.



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

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

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 *Entomospodium*; 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 49) in wet environments.

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

Serenade® Garden Disease Control



This Biofungicide Works Great For Treating A Broad Spectrum Of Plant Diseases.

TARGET: Black spot, powdery mildew, rust, gray mold, late blight, scab and many more.

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



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

2000080	Serenade 32. oz. Concentrate	\$22.85
2000081	Serenade 32. oz. RTU Spray Bottle	\$15.75
2000082	Serenade 32. oz. RTS Hose End	\$26.00

Pvent



This Ultra-Concentrate Biofungicide Offers Long Lasting Protection.

TARGET: *Alternaria*, anthracnose (*Colletotrichum*), *Bipolaris*, *Botrytis*, *Cladosporium*, *Colletotrichum*, *Didymella*, *Fusarium*, *Helminthosporium*, *Monilinia*, *Mycosphaerella*, *Penicillium*, *Phytophthora*, *Plasmodiophora*, *Plicaria*, *Pyrenochaeta*, *Pythium*, *Rhizoctonia*, *Sclerotinia*, *Verticillium*, mildews and other plant diseases.



DESCRIPTION: This preventative fungicide provides an enzyme secreted by *G. catenulatum*, which ruthlessly attacks pathogenic fungi in 3 ways: it rapidly colonizes its host environment and begins working symbiotically in the plant rhizospheres, root zone and in all new growth; it feeds on fungi on treated surface and then reproduces on the same area to ensure against pathogenic re-infection and it promotes Induced Systemic Resistance (ISR) properties in existing plants. Protection lasts 3-4 weeks. Can be used in conjunction with other bactericides/fungicides.

SUGGESTED USE: Apply by spraying or drenching the growth substrate. Surfactants are not generally needed, but a non-ionic type may be used. Foliar Spray - 0.33 oz./1/5 gallons of water. Repeat every 7 to 14 days, depending on disease pressure. Field Chemigation or Drench - 0.16 oz./100 sq. ft. drip irrigation lines. Fogging - 0.016 oz./100 sq. ft. with a minimum water volume of 0.005 gallons per 100 sq. ft.

1222560	Pvent - 1/2 lb.	\$145.99
1222561	Pvent - 1 lb.	\$252.50
1222565	Pvent - 1/2 lb. - case of 12	\$1,475.00
1222566	Pvent - 1 lb. - case of 12	\$2,750.00
1222567	Pvent - 2.2 lbs. - case of 6	\$2,880.00

Cannot be shipped to the following states: AK, AL, CA, HI, KS, MD, MI, MN, MS, NE, PA, PR, SD, TN, WI

BONIDE® Liquid Copper Fungicide

Use For The Control & Prevention Of Many Fungal Diseases!

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

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



SUGGESTED USE:

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

1455101	BONIDE Liquid Copper Fungicide - 16 oz. Conc.	\$16.45
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Cannot be shipped to the following states: AK, DC, PR

BioSafe Disease Control - Concentrate & RTU



Eliminate Bacteria & Fungi On Contact!

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

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

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

- | | | |
|----------------|--------------------------------------|----------------|
| 1222504 | BioSafe Disease Control - 32 oz. RTU | \$14.75 |
| 1222505 | BioSafe Disease Control - 32 oz. RTS | \$20.99 |



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.)

- | | | |
|----------------|--------------------------------------|----------------|
| 1332753 | MilStop Foliar Fungicide - 5 lb. Bag | \$63.00 |
|----------------|--------------------------------------|----------------|
- Cannot be shipped to the following state: CA, AK



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 (*Diplocarponroseae*).

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 48) and reapply every 4-8 weeks.

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| 1420001 | Actinovate Lawn & Garden - 2 oz. | \$27.00 |
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- Cannot be shipped to the following states: AK, HI, PR



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 micronized 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 |

Cannot be shipped to the following states: AK, DC



Banish



Controls Downy & Powdery Mildew Pathogens With Geraniol.

TARGET: Use to control and prevent downy mildew and powdery mildews, including the following: *Podospheara fusca*, *Erysiphe nector* (*Uncinula necator*), *Podospheara leucotricha*, *Podospheara aphanis* and *Oidium lycopersicum*.

DESCRIPTION: This outstanding fungicide uses Geraniol, a natural geranium oil plant extract, to control common mildews in plants. Banish works in a two-fold process to prevent mildew growth and heal plants from the cell up. The Geraniol works by creating an unbalance of potassium (K+) ions in the mycelium. This unbalance inhibits spore germination and mycelium growth and will, ultimately, enter the pathogen cell and kill it. The result is a healthier, pathogen-free plant.

SUGGESTED USE: For use only as a foliar spray. The mix rate is .13 fl. oz. (3/4 tsp.) or 3.8 mL/gal water. Spray directly on all infected foliage until it's evenly covered. Apply every 5-7 days until infestation is controlled. For prevention, apply every 10-14 days.

1458170	Banish - 2 oz. concentrate	\$30.00
1458172	Banish - 32 oz. concentrate	\$129.50
1458173	Banish - 1 gal. concentrate	\$299.50



Defender PM



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

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

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

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

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



Regalia®



OMRI Listed Control For Both Bacterial & Fungal Diseases.

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

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

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

1332970	Regalia - 2.5 Gallons	\$220.00
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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 highly refined pre-emulsified mineral oil, this suffocant creates the optimum in coverage with limited risk of plant damage. The pre-emulsified process used creates a lighter oil that dries faster, will not cause phototoxicity, burn or undue stress, leaves no toxic residue on plants and dilutes easily with water.

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

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

Larger sizes available.

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

Cannot be shipped to the following states: AK, DC



The Power of Peroxyacetic Acid

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

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

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

SaniDate® 5.0



An OMRI Listed Sanitizer/Disinfectant.

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

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

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

1222515	SaniDate 5.0 - 2.5 Gallons	\$155.50
1222517	SaniDate 5.0 - 5 Gallons	\$245.50

Larger sizes available. All sales of SaniDate are final.

WARNING

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



Vital Oxide

Kill Dangerous Bacteria & Viruses On All Surfaces.

TARGET: Kills MRSA, *Pseudomonas aeruginosa*, *Escherichia coli*, *Salmonella enterica*, *Staphylococcus aureus*, *Legionella pneumophila*, *Aspergillus niger*, norovirus, human immunodeficiency virus type 1 (HIV-1), *Enterobacter aerogenes*, *Listeria monocytogenes*, *Acinetobacter baumannii*, *Rotavirus*, 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

Larger sizes available.

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

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



Root Guard Gopher Wire Baskets

Stop Gophers From Damaging Plant Roots!

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

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



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

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

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

Repeater™ & Little Pete® Multiple Catch Mouse Traps

Catch & Release Multiple Mice At Once!

TARGET: Mice.

DESCRIPTION: These galvanized metal traps are designed to allow mice to enter the trap, while simultaneously latching door shut! See-through, and reusable. The smaller trap can hold up to about 9 mice at one time, the larger trap can hold approximately 30 mice!



SUGGESTED USE: Does not require bait. For best results, place a fragrant snack like peanut butter on a cracker into the trap. Place hinged side along floor boards and check trap regularly. Release mice promptly. Replace snack in trap, reset, and reuse!

1255101	Little Pete Multiple Catch Mouse Trap	\$12.99
1255100	Repeater Multiple Catch Mouse Trap	\$14.99

BONIDE® Mouse Magic Mouse Repellent

Repel Rodents With Essential Oils From Homes, Sheds, Garages, Campers, Barns, Cellars & More!

TARGET: Mice.

DESCRIPTION: Repels with essential oils, such as spearmint and peppermint. Masks the scent of trails used to infest areas, and triggers escape and avoidance behaviors in rodents. One pack will treat an averaged sized room for approximately thirty days when used according to the directions.



SUGGESTED USE: Distribute where mice or rodents may feed, nest, or travel. Place near stored animal foods, near nesting and feeding entry ways, or under large appliances. Use one pack for an average size room, and increase the number of packs used, until desired level of control is reached.

1287710	BONIDE Mouse Magic Mouse Repellent 4 Pack	\$9.00
1287711	BONIDE Mouse Magic Mouse Repellent 12 Pack	\$22.50

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





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 17-19 for more information.

ANT CONTROL

Monterey Ant Control



Adios Ants! This OMRI Listed Product Is The Answer You Have Been Looking For!

TARGET: Ants, earwigs, cutworms, sowbugs, pillbugs, crickets, slugs and snails. **Not for:** Fire ants, harvester ants, pharaoh ants and carpenter ants.

DESCRIPTION: This easy to apply granular product is made from iron phosphate and Spinosad – a beneficial bacteria that effects insects’ nervous systems.

SUGGESTED USE: For use outdoors and on edible crops. Use about 1 tsp./sq. yd. or 1 lb./2000 sq. ft. Apply uniformly on grounds or soil and can be applied with a hand spread for larger areas. Apply only 3x a month, and do not apply within 3 days of harvest.

- 1257895** Monterey Ant Control - 1 lb. Shaker Can **\$7.49**
- 1257896** Monterey Ant Control - 2.5 lb. Jug **\$20.49**

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



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**



FIRE ANT CONTROL

Orange Guard® Fire Ant Control



Control Fire Ant Mounds Without Risking The Health Of Your Family, Pets Or The Environment.

TARGET: Fire ants.

DESCRIPTION: Orange Guard Fire Ant Control contains ingredients which are on the FDA GRAS list (generally recognized as safe). Orange Guard Fire Ant Control is water based, so further dilution is easy. It works by dissolving away the waxy coating on the ant’s exoskeleton, which clogs their spiracles (how they breathe), and they suffocate.

SUGGESTED USE: Puncture the mounds and then saturate them, using 1/2 gallon of either full strength or diluted (3 parts of water to 1 part Orange Guard Fire Ant Control). Dilution does not harm grass and covers approximately 8 mounds.

- 1460005** Orange Guard Fire Ant Control - 1 Gallon **\$32.75**

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



CRAWLING INSECT CONTROL

Orange Guard® Home Pest Control



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

TARGET: Crawling pest insects.

DESCRIPTION: Orange Guard has proven effective to provide effective control against a broad range of insects including cockroaches, ants, fleas, locusts, weevils, and many other hard to control insects. Orange Guard contains d-Limonene, which is steam distilled orange peel oil. Orange Guard may be used around food, humans and pets and is EPA registered. Smells great too!

SUGGESTED USE: For indoor use, spray from 12 inches directly on pest insects. Saturate until visibly wet. Wait 3 minutes, then wipe excess with damp cloth. Apply to pet bedding to repel fleas. Keeps repelling for weeks. For outdoor use, generously spray perimeter of home and anywhere pests can enter to make a barrier of protection.

- 1460001** Orange Guard Pest Control - 32 oz. RTU Spray Bottle **\$10.97**
- 1460002** Orange Guard Pest Control - 1 Gallon with Sprayer **\$35.00**
- 1460003** Replacement Sprayer for 1 Gallon Orange Guard **\$5.30**



BONIDE® Home Safe™ Household Insect Killer



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

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

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

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



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| 1460010 | Home Safe Household Insect Killer - Quart RTU | \$9.99 |
| 1460020 | Home Safe Household Insect Killer - Gallon RTU | \$22.99 |

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.

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| 1457403 | EcoPCO® AR-X Multi-Purpose Insecticide | \$17.99 |
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- Ships via Ground ONLY.



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.



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

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| 1273050 | Essentria G Granular Insecticide - 22 lbs. | \$67.50 |
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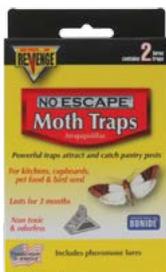
REVENGE® Pantry Moth Trap

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

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

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

BED BUG CONTROL

Hygea Natural Bed Bug & Lice Exterminator



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

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

DESCRIPTION: Formulated with naturally occurring enzymes and no animal products or by-products, you can be comfortable using this residue-free product regularly. And because bedbugs can live up to a year between feedings, you will want to be proactive by spraying as often as every day for prevention. Use with the laundry treatment for a perfect 1-2 punch.

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



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|----------------|--------------------------------------|----------------|
| 1219600 | Bed Bug & Lice Exterminator - 3 oz. | \$5.99 |
| 1219602 | Bed Bug & Lice Exterminator - 24 oz. | \$11.99 |
| 1219605 | Bed Bug & Lice Exterminator - 1 gal. | \$39.99 |

Avenger® Natural Bed Bug Killer™ - RTU

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

TARGET: Bed bugs (*Cimex lectularius*)

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

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



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

Harris Bed Bug Killer



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

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

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

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



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

ClimbUp®

Do You Worry About Bed bugs? This Device Can Help.

TARGET: Residential or commercial spaces where furniture and bedding should be monitored for bed bugs.

DESCRIPTION: ClimbUp is a tough, plastic, re-usable double well cup that is placed under the legs of beds (or other furniture that you rest or sleep on) to intercept any bugs entering or leaving the bed. ClimbUp contains no chemicals or pesticides so it will not outright kill the insects. They will eventually dehydrate and die in the trap. ClimbUp should be seen as a monitoring device and not an insect control measure.

SUGGESTED USE: Place ClimbUp devices under each leg of the furniture where people sleep or rest. Monitor frequently to determine presence of insects. Clean and re-lubricate as needed.



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

Actinovate® Lawn & Garden Fungicide.....	54	DTE Acid Mix, 4-3-6	46	Monterey Peach Tree Borer Trap	24
All Purpose Dispenser Tube	49	DTE All Purpose Mix, 4-6-2	47	Monterey Take Down Garden Spray.....	31
Aphid Parasite - <i>Aphelinus abdominalis</i>	7	DTE Bat Guano, 9-3-1	47	Mosquito Barrier®	37
Aphid Parasite - <i>Aphidius colemani</i>	7	DTE Bio-Live, 5-4-2	47	Mosquito Bits®	36
Aphid Parasite - <i>Aphidius ervi</i>	8	DTE Bio-Turf, 8-3-5.....	47	Mosquito Dunks®	36
Aphid Predator - <i>Aphidoletes aphidimyza</i>	8	DTE Blood Meal, 12-0-0	46	Mosquito Magician	37
AQUABAC® 200G Granular Bti Mosquito Control.....	36	DTE Bone Meal, 3-15-0	46	Mycotrol® WPO	29
AQUABAC® Xt	36	DTE Citrus Mix, 6-3-3.....	47	Natular® DT	37
ARBICO Family of Fertilizers & Amendments.....	40	DTE Crab Meal, 4-3-0.....	46	Natular® G30 WSP	37
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ARBICO Organics™ Compost Plus	41	DTE Kelp Meal, 1-0-1-2	46	Neptune's Harvest Fish & Seaweed Fertilizer 2-3-1	45
ARBICO Organics™ Compost Tea Bag	41	DTE Langbeinite, 0-0-22	46	Neptune's Harvest Fish Fertilizer 2-4-1	45
ARBICO Organics™ Earthworm Castings	41	DTE Neem Seed Meal, 6-1-2.....	46	Neptune's Harvest Seaweed Plant Food 0-0-1	45
ARBICO Organics™ Earthworms - <i>Eisenia fetida</i>	41	DTE Rock Phosphate, 0-3-0	46	Neptune's Harvest Turf Formula Fertilizer, 2-0-2	48
ARBICO Organics™ Fly Eliminators	32-33	DTE Rose & Flower Mix, 4-8-4	47	Nitron's Thatch Away	48
ARBICO Organics™ Good Bug Blend	4	DTE Seabird Guano, 0-11-0	46	Olson Garden Guard Yellow Sticky™ Ribbon.....	15
ARBICO Organics™ Good Bug Power Meal.....	4	DTE Starter Mix, 3-3-3	47	Orange Guard® Fire Ant Control	58
ARBICO Organics™ Holistic Fly Defense.....	35	DTE Vegan Mix, 3-2-2	47	Orange Guard® Home Pest Control.....	58
ARBICO Organics™ Root Build 240™ Mycorrhizal Fung.....	43	DTE Vegetable Garden, 4-4-4	47	Organic JMS Stylet-Oil®	25
ARBICO Organics™ Solar Fly Trap	35	Earth Alive™ Soil Activator™	42	OxiDate® 2.0.....	56
ARBICO Organics™ Yellow Insect Traps	14	Earth Harvest Gluten-8 Liquid Corn Gluten - Set of 2	50	Perma-Guard™ Crawling Insect Control.....	22
Asian Citrus Psyllid (ACP) Detector.....	24	EcoPCO® AR-X Multi-Purpose Insecticide	59	Pest Wizard Assorted Sticky Traps	16
Assassin Bug - <i>Zelus renardii</i>	7	Electronic Flea Trap	22	Pest Wizard Blue-Yellow Card Trap	16
Aunt Fannie's FlyPunch!	60	EM•1® Microbial Inoculant.....	34 & 42	Pest Wizard Yellow Sticky Traps	15
Aunt Fannie's Mosquito Spray.....	38	Espree® Aloe Herbal Horse Spray	35	Phydura™	51
Aunt Fannie's Mosquito Wipes	38	Essentria™ G Granular Insecticide	22 & 59	Plant Success Organics Granular™, 3-1-2	43
Avenger® Natural Bed Bug Killer™ - RTU.....	61	Flea 'n Tick B Gone™	22	Praying Mantis - <i>Tenodera aridifolia</i>	7
Avenger® Weed Killer	51	Fungus Gnat Predator - <i>Stratiolaelaps scimitus</i>	13	Predalure™	4
AzaGuard®	28	Garlic Barrier®	26	PreFence™ Biofungicide	52
AzaSol™	28	Gluten-8 OLP™ Liquid Corn Gluten, 1.5-0-0	50	Purple Scale Predator - <i>Rhyzobius lophanthae</i>	13
Azera® Gardening	31	Grandevo® & Grandevo® WDG	30	Pvent	53
balEnce™ Fly Spray	34	Great White® Premium Mycorrhizae.....	43	PyGanic® Gardening.....	31
Banish	55	Green Cleaner	30	Red Scale Parasite - <i>Aphytis melinus</i>	12
BioCare® Apple Maggot Trap W/Lures	24	Green Lacewings - <i>Chrysoperla rufilabris</i>	6	Regalia®	55
BioCare® Clothes Moth Trap	60	Guard 'N Spray™	26	Repeater™ & Little Pete® Multiple Catch Mouse Traps	57
BioCare® Cockroach Traps	60	Harris Bed Bug Killer	61	Revenge® Pantry Moth Trap	60
BioCare® Codling Moth Trap	24	Harris Famous Roach Tablets.....	59	Root Guard Gopher Wire Baskets.....	57
BioCare® Gnat Stix	14	Healthy Soil Recipe – Large Kit	45	RootShield® Home & Garden	52
BioCare® Window Fly Trap	60	Healthy Soil Recipe – Regular Kit.....	45	RootShield® Plus Granules & RootShield® Plus WP	52
BioCeres® WP	29	<i>Heterorhabditis indica</i>	5	Rove Beetle - <i>Dalotia coriaria</i>	13
BioSafe Disease Control - Concentrate & RTU	54	Honey Bee Magnet.....	5	SaniDate® 5.0	56
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BONIDE® Neem Oil RTU & Concentrate.....	27	Ladybugs - <i>Hippodamia convergens</i>	6	Spider Mite Destroyer - <i>Feltiella acarisuga</i>	9
BONIDE® Repels-All® Animal Repellent.....	57	Mealybug Destroyer - <i>Cryptolaemus montrouzieri</i>	13	Spider Mite Destroyer - <i>Stethorus punctillum</i>	11
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Bug Bam! Mosquito Band®, Camp Grids & Pet Tags	39	Mite Predator - <i>Neoseiulus californicus</i>	9	Thrips & Whitefly Predator - <i>Amblyseius swirskii</i>	12
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Cease® - Biological Fungicide	53	Mite Predator - <i>Phytoseiulus persimilis</i>	11	Venerate® XC.....	30
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Defender PM.....	55	Monterey Fruit Tree Spray Plus	27	Whitefly Parasite - <i>Encarsia formosa</i>	8
DiPel® Pro DF & DiPel® DF.....	21	Monterey Garden Insect Spray	21	Whitefly Parasite - <i>Eretmocerus eremicus</i>	8
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Down To Earth™ Bio-Turf, 8-3-5	48	Monterey Lady Bug Attractant	4	Yellow Sticky™ Tape	15



ARBICO Organics Team



Sheri & Rick Frey, Founders ARBICO Organics

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Take advantage of our FREE consultation! Let us help solve your gardening and farming issues with our start to finish ARBICO Organics solutions. Our trained staff will help determine what problem you have (insect, disease, weed, nematode, critter, pet issue, fertility needs), offer solutions for immediate relief and prescribe a long term sustainable program for continued success.

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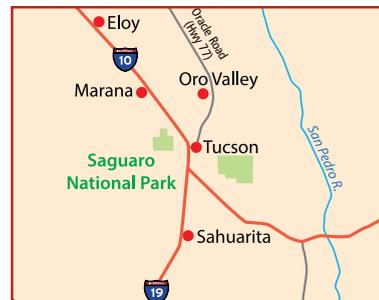
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Vice President,
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