

ARBICO *organics*™

Providing Organic Solutions For Growers Since 1979

Late Fall/Winter Catalog 2016

Natural Products For Your Organic Garden, Farm and Livestock!



EARTH FRIENDLY SOLUTIONS:

- Beneficial Insects
- Beneficial Nematodes
- Predatory Mites & Parasites
- Biorational Insecticides
- Frost Protection
- Seed Starting & Soil Prep
- Pest Insect Traps
- Crawling Insect Control



SEASONAL GROWING

Fall and winter growing has unique challenges and great rewards. Whether you are growing in a greenhouse environment or cole crops outdoors, ARBICO has the solutions to manage your grow. See below our quick guide to common fall and winter growing needs.



Outdoor Pest & Animal Control

- Beneficial Nematodes – Pages 16-17
- Insecticides – Pages 22-24
- Animal Control – Page 39



Covered Crops

- Sticky Traps – Pages 13-15
- Frost Protection – Pages 32-33
- Cleaning & Sanitizing – Page 27



Outdoor Cool Season Growing

- Soil Testing – Pages 35
- Amendments – Pages 36-37
- Seeds – Page 34



Indoor Growing

- Pollination – Page 4
- Beneficial Insects – Pages 5-12
- Disease Control – Pages 26-27

HOLIDAY GIFT IDEAS

A.



B.



C.

D.



E.



F.



G.



H.



I.



J.



K.



L.



M.



A.	1635025	Gift Certificate	\$25.00
B.	1232283	Stainless Steel Pail	\$39.99
C.	1232282	Bamboo Pail	\$59.99
D.	1261517	Ladybug Loft	\$52.00
E.	1989806	Back to the Roots® Water Garden	\$60.00
F.	1133855	Birdie Dwelling - Apartment	\$22.00
G.	1989803	Back to the Roots® Mushroom Farm	\$19.99
H.	1989807	Back to the Roots® Garden-In-A-Can	\$9.00
I.	1133822	Critter Case	\$12.50
J.	1200205	Garden Gone - Heavy Duty Hand Soap	\$6.75
K.	1990001	Cultures for Health Greek Yogurt Starter	\$00.00
L.	1261715	Jabebo Ladybug Earrings	\$11.50
M.	1308025	Culti Cave Mini Greenhouse™	\$79.95

More gift ideas online!

POLLINATORS & BENEFICIAL SUPPLEMENTS

Bumblebee Hives

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

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

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

SUGGESTED USE:

Bumblebee Hive - Class A

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

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

Bumblebee Hive - Class B

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

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

Bumblebee Hive - Class C

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

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

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

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



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 help you attract & 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 (7.5 lbs.) **\$52.00**

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

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, fiber, 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 1/2 lb. Bag (.75 lb.) **\$6.50**

1133002 1 lb. Bag (1.5 lbs.) **\$11.50**



ARBICO Organics™ Good Bug Blend

Flowering Beneficial Insect Habitat – Good for People, Too!

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

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

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

1134000 1/2 lb. Bag (.75 lb.) **\$5.95**

1134001 1 lb. Bag (1.5 lbs.) **\$9.75**

1134002 10 lb. Bag (11.25 lbs.) **\$67.95**

1134003 50 lb. Bag (52 lbs.) **\$289.00**



Use Cover Crops To Attract Native Pollinators To Your Area.

GENERALISTS

Ladybugs - *Hippodamia convergens*

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

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



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

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

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

1112525	≈1,500	(.75 lb.)	≈800 sq. ft.	\$12.95
1112511	≈4,500	(1 lb.)	≈2,500 sq. ft.	\$22.50
1112512	≈9,000	(1 lb.)	≈5,000 sq. ft.	\$29.00
1112513	≈18,000	(1 lb.)	≈10,000 sq. ft.	\$43.00
1112505	≈35,000	(5 lbs.)	≈1/2 acre	\$71.00
1112506	≈70,000	(13 lbs.)	≈1-10 acres	\$125.00

2nd Day Shipping Required

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

Assassin Bug - *Zelus renardii*

These Generalist Terrestrial Ambush Predators Do A Big Job!

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



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

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

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

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

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



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

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



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

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

Relative Humidity: 30-50%

Release Rate: Every 7-10 days

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

Green Lacewing Eggs Programs:

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

SUGGESTED USE (Depending upon level of infestation):

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

Larvae & Adults Require OVERNIGHT Shipping

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

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

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

BENEFICIAL INSECTS & MITES

Minute Pirate Bug - *Orius insidiosus*

Excellent General Predator In Field Crops & Greenhouses.

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

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

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



Orius insidiosus

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

1117001	≈500	(2 lbs.)	\$79.00
1117003	≈1,000	(2 lbs.)	\$108.00
1117004	≈2,000	(3 lbs.)	\$205.00

Overnight Shipping Required

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

SPECIALISTS - APHID CONTROL

Aphid Predator - *Aphidoletes aphidimyza*

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

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

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

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



Aphidoletes aphidimyza

Temperature: Warm 64-77°F **Relative Humidity:** Moderate ≈70%

1101001	≈1,000 Pupae	(2 lbs.)	\$80.00
1101003	≈3,000 Pupae	(5 lbs.)	\$207.00

Overnight Shipping Required

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

Aphid Parasite - *Aphidius colemani*

Exceptional In Greenhouses Producing Vegetables & Ornamentals.

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

DESCRIPTION: Shipped as mummies, ready to emerge.

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

Temperature: 64-75°F **Relative Humidity:** High ≈80%

1101302	≈500 Mummies	(2 lbs.)	\$43.00
1101301	≈1,000 Mummies	(2 lbs.)	\$59.95

Overnight Shipping Required

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



Aphidius colemani

Aphid Parasite - *Aphidius ervi*

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

Image Citation: Alex Wild

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

DESCRIPTION: Shipped as mummies, ready to emerge.

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

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

1001001	≈250 Mummies	(2 lbs.)	\$80.00
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Overnight Shipping Required

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



Aphidius ervi

Aphid Parasite - *Aphidius abdominalis*

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

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

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

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

Temperature: Hot 68-80°F **Relative Humidity:** Low-High ≈60-80%

1101101	≈250 Mummies	(2 lbs.)	\$65.50
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Overnight Shipping Required

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



Aphelinus abdominalis

SPECIALISTS - WHITEFLY CONTROL

Whitefly Parasite - *Encarsia formosa*



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

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



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

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

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

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

2nd Day Shipping Required

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

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



Whitefly Parasite - *Eretmocerus eremicus*

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

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



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

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

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

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

Overnight Shipping Required

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

Whitefly Parasite - *Delphastus catalinae*

These Tiny Brown Beetles Consume Several Hundred Pests Daily!

TARGET: Aphids, scale, thrips, and especially greenhouse and outdoor sweet potato 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 mandibles, inject paralyzing venom and feed on pest body fluids. Shipped as adults, they should be used at the first signs of infestation.

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

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

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

Overnight Shipping Required

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

BENEFICIAL INSECTS & MITES

BENEFICIAL MITES

Mite Predator - *Amblyseius andersoni*

Great For Pre-Emergent Control Of Pest Mite Infestations!

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



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

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

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

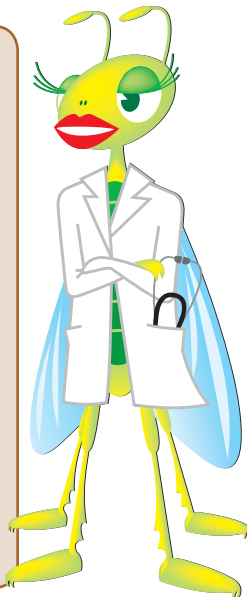
1101320	100 Gemini Sachets (≈25,000) ≈1 Sachet/6-3 ft. of crop row	(8.5 lbs.)	\$135.00
1101321	1 Bag (≈125,000)	(5 lbs.)	\$425.50
1101322	6 x 328 ft. CRS Sachet	(5 lbs.)	\$547.00
1101323	200 Mini Sachets w/Hooks	(3 lbs.)	\$152.00

Overnight Shipping Required

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

"I highly recommend using OMRI Listed Organic JMS Stylet-Oil to smother the eggs of aphids and other pests. See page 23 for more information."

- Dr. Buglady



Mite Predator - *Phytoseiulus persimilis*

The Mite Predator With The Highest Consumption & Dispersal Rate.

TARGET: Two spotted spider mites and various other mites.

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

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

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

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

Overnight Shipping Required

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



Mite Predator - *Amblyseius swirskii*

Use For Crops Grown In Warmer Weather Conditions.

TARGET: Western flower thrips (*Frankliniella occidentalis*), onion thrips (*Thrips tabaci*), broad mites (*Polyphagotarsonemus latus*), hemp russet mites (*Aculops cannabicola*) glasshouse whiteflies, (*Trialeurodes vaporariorum*), tobacco whiteflies (*Bemisia tabaci*) or silverleaf whiteflies.

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

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

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

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

Overnight Shipping Required

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



BENEFICIAL MITES

Mite Predator - *Galendromus occidentalis*

Excellent For Hot & Dry Inland Areas!

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

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

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

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

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

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

Overnight Shipping Required

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



Galendromus occidentalis

Mite Predator - *Neoseiulus (=Amblyseius) californicus*

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

TARGET: Various mites; cyclamen mites and broad mites.

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

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

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

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

Overnight Shipping Required

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



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 lifespan of approx. 13-40 days. Consumption of pest is dependent upon temperatures and infestation conditions. Use in greenhouses and with taller plants growing under warm lights.

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

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

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

Overnight Shipping Required

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



Mesoseiulus longipes

Spider Mite Destroyer - *Feltiella acarisuga*

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

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

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

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

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



Feltiella acarisuga

BENEFICIAL INSECTS & MITES

Mite Predator - *Neoseiulus (=Amblyseius) fallacis*

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

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

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

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

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

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

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

Overnight Shipping Required

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



Spider Mite Destroyer - *Stethorus punctillum*

Use These Predators In Addition To Other 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	(3 lbs.)	\$79.00
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Overnight Shipping Required

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



SPECIALISTS

Moth Egg Parasites - *Trichogramma spp.*

Prevent Worm Pest Damage On Crops!

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



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

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

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

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

2nd Day Shipping Required

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

SPECIALISTS

Mexican Bean Beetle Parasite - *Pediobius foveolatus*

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

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

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



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

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

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

Overnight Shipping Required

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

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

For Indoor Control Of Soil Dwelling Pests!

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

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



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

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

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

Overnight Shipping Required

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

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

These Beneficial Mites Consume Vast Quantities Of Thrips.

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

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



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

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

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

Overnight Shipping Required

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

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

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

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



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

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

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

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

Overnight Shipping Required

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

BENEFICIAL INSECTS & MITES

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

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

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

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

Overnight Shipping Required

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



Cryptolaemus montrouzieri

Mealybug Parasitoid - *Anagyrus pseudococci*

Stop Destructive Mealy Bugs With This Beneficial Parasitoid.

Image Citation: Crerob Hermosillo, Mexico

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

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

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

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

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

Overnight Shipping Required

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



Anagyrus pseudococci

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

Voracious Adults & Larvae Feed On Scale & Other Pests!

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

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

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

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

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

Overnight Shipping Required

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



Rhyzobius (=Lindorus) lophanthae

Red Scale Parasite - *Aphytis melinus*

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

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

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

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

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

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

Overnight Shipping Required

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



Aphytis melinus



Scale Infestation

Yellow Sticky Trap Ribbon

Positively Identify Your Pests!

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

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

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

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



Melissa, Lemon & Cinnamon Leaf Essential Oils

Lure In Unwanted Insect Pests With These Delightfully Scented Oils!

TARGET: Thrips, fungus gnats, horse flies, deer flies, mealybugs, scale, leafminers and more.

DESCRIPTION: When used with a sticky trap, these aromatic essential oils have proven to be an effective tool in your insect control arsenal. Melissa oil contains terpenes, Lemon oil has terpenes and geraniol and Cinnamon Leaf has geraniol and eugenol. All of these components have been shown to attract pest insects. Melissa oil (aka Lemon Balm oil) has a lemony scent, lighter than the characteristic lemon aroma you'll find in the Lemon oil. Cinnamon oil has that lovely spicy scent that most everyone loves and the eugenol in it is known to attract Japanese beetles. Melissa oil should not come into contact with skin unless diluted (recommended dilution is 4.5 drops per 1/2 oz., or 1%). Lemon oil should be kept refrigerated to maintain its effectiveness. Do not use Lemon oil if you have a citrus allergy. Cinnamon Leaf is not appropriate for skin or hair, due to possible allergic reaction.

SUGGESTED USE: Use with any sticky trap. Place a drop or two on your trap every 1-3 days. Each bottle contains approximately 300 drops, enough to last a season.

- 1610071** Melissa Essential Oil 1/2 oz. w/Dropper (.42 lb.) **\$12.95**
- 1610075** Lemon Essential Oil 1/2 oz. w/Dropper (.42 lb.) **\$7.00**
- 1610073** Cinnamon Leaf Essential Oil 1/2 oz. w/Dropper (.42 lb.) **\$7.00**



Yellow Stiky™ Tape

A New Longer Length To Cover Even More Area.

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

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

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

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



- 1610071** Melissa Essential Oil 1/2 oz. w/Dropper (.42 lb.) **\$12.95**
- 1610075** Lemon Essential Oil 1/2 oz. w/Dropper (.42 lb.) **\$7.00**
- 1610073** Cinnamon Leaf Essential Oil 1/2 oz. w/Dropper (.42 lb.) **\$7.00**

Stiky Stuff Sticky Coating

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

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

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

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

- 1259600** Stiky Stuff Adhesive (.6 lb.) **\$14.57**
- 1259601** Stiky Stuff Adhesive - Pack of 2 (1.2 lbs.) **\$27.00**
- 1259602** Stiky Stuff Adhesive - Pack of 3 (2 lbs.) **\$40.50**
- 1259603** Stiky Stuff Adhesive - Pack of 4 (2.5 lbs.) **\$52.00**



PEST INSECT TRAPS

Stiky™ Strips Yellow Sticky Traps



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

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



- 1254301 Sticky Strips Yellow Sticky Traps - 9 Pack (.25 lb.) **\$5.49**
- 1254302 Sticky Strips Yellow Sticky Traps - (5) 9 Packs (1.25 lbs.) **\$25.00**
- 1254303 Sticky Strips Yellow Sticky Traps - (10) 9 Packs (2.5 lbs.) **\$45.00**

Sticky Traps

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

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

Aphid/Whitefly Yellow Sticky Traps:

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

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

Thrips/Leafminer Blue Sticky Traps:

TARGET: Thrips, leafminers.

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

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



Pest Wizard Mini Yellow Sticky Trap



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

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

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

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

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

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



Stiky™ Plant Stakes



Knock Out Those Pesky Little Fliers Around Your Plants!

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

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

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

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





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, etc.!

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



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

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

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

Scentry Multigard Traps

Stuck On How To Monitor & Trap Pests? These Terrific Sticky Traps Are Your Answer!

Yellow Trap Target: Aphids, corn rootworm, apple maggot, bean beetles, flea beetle, fungus gnats, leafminer shore flies, silverleaf, sweet potato whiteflies, thrips and walnut husk flies and more.

Green Trap Target: Various *Diabrotica sp.* of beetles including banded cucumber beetle, Mexican corn rootworm, northern corn rootworm, spotted cucumber beetle, western corn rootworm, western cucumber beetle, and western spotted cucumber beetle.



DESCRIPTION: These traps use specific wavelengths of color (yellow or green) to attract certain pest insects. Coated with a sticky material, these traps measure 11" x 9.5" and do not use pheromone lures. Depending on which pest insect you wish to monitor, select appropriate trap for your needs.

SUGGESTED USE: Place in fields, nurseries, greenhouses or home gardens. No pheromone lure is needed with this trap. Utilize at least one per small field or growing area, and multiple traps in areas with heavy infestations or spaces over 10 acres in size. Replace traps when full and after heavy rain.

1231101	Scentry Multigard Trap - Yellow - Case of 100	(1 lb.)	\$142.00
1231102	Scentry Multigard Trap - Green - Case of 100	(1 lb.)	\$142.00

Blue Sticky Strips

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

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

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

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

1254401	Blue Sticky Traps - 10 pack	(.25 lb.)	\$9.00
1254402	Blue Sticky Traps - 10 pack (bundle of 5)	(1.25 lb.)	\$43.00



BioCare® Gnat Stix

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

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

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

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



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



BENEFICIAL NEMATODES

What Are Beneficial Nematodes?

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



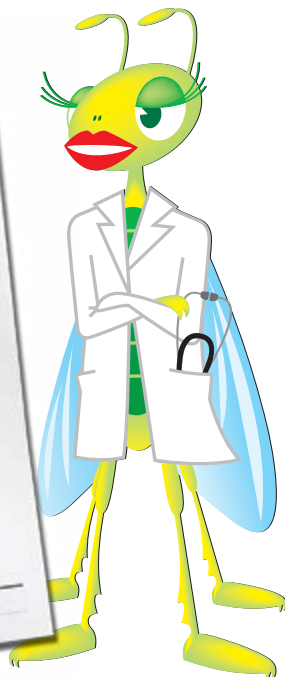
How Do Beneficial Nematodes Work?

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



Why Do I Need Beneficial Nematodes?

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



When & How Often Should Beneficial Nematodes Be Applied?

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

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

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

How Do I Apply Beneficial Nematodes?

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

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



Applying Beneficial Nematodes with a pump sprayer.

When Will I See Results?

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

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

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

Chameleon Adaptable Hose End Sprayer

Perfect Application!

DESCRIPTION: Multipurpose sprayer

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

SUGGESTED USE: Beneficial Nematode application.



1800006

1 Sprayer

(2 lbs.)

\$14.75

BENEFICIAL NEMATODES



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

NEMATODE VARIETY GUIDE

Choose Variety By Pest

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

For information about termite control, please call.

SIZE & COVERAGE CHART

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



See website for best pricing!

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

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

SINGLE SPECIES		
● NemAttack <i>Steinernema carpocapsae</i>		
SKU	Size	Price
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

SINGLE SPECIES		
■ NemAttack <i>Steinernema feltiae</i>		
SKU	Size	Price
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

SINGLE SPECIES		
▲ NemaSeek <i>Heterohabditis bacteriophora</i>		
SKU	Size	Price
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

COMBO PACK		
▲ Sc NemAttack & Hb NemaSeek		
SKU	Size	Price
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

COMBO PACK		
■ ▲ Sf NemAttack & Hb NemaSeek		
SKU	Size	Price
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

TRIPLE THREAT COMBO		
● ■ ▲ Sc NemAttack, Sf NemAttack & Hb NemaSeek		
SKU	Size	Price
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

JAPANESE BEETLE CONTROL

BIOLOGICAL GRUB CONTROL

NemaSeek™ Hb Beneficial Nematodes

Beneficial Nematodes are one of nature's most powerful weapons available for ending Japanese Beetle infestations. Along with parasitizing the beetles in their larval, underground damaging stages, they also parasitize the larval stages of other pest grubs, caterpillars, thrips, fungus gnats, ants, roaches, termites, fleas, ticks, flies and more. Apply with a watering can, hose end sprayer or backpack sprayer. **See pages 16-17 for more information.**



Milky Spore Powder

Specific, Long Lasting Larval Control.

TARGET: Japanese beetle grubs.

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



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

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

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

*Call for freight quote.

Cannot be shipped to the following states: OR,WA



Where Are Japanese Beetles Found?

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



ADULT BEETLE CONTROL

PyGanic Crop Protection EC 1.4



Our Most Powerful Broad-Spectrum Insecticide!

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

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

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



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

Cannot be shipped to the following states: PR

Surround® WP



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

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

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

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



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

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



Ticks

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

Flea 'n Tick B Gone™

Fast Acting And Easy-To-Use!

TARGET: Natural solution for your pets.

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

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



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

Diatomaceous Earth – Food Grade

Multi-Purpose Food Grade DE.

TARGET: Pest insects, anti-parasite for horses & livestock.

DESCRIPTION: Diatomaceous Earth (DE) is an odorless powder that has an abrasive quality similar to fine pumice. Is effective for deterring insect pests that crawl and have an exoskeleton. Use to combat: ants, bedbugs, crickets, cockroaches, earwigs, silverfish, and more.

SUGGESTED USE: Sprinkle a light layer where crawling insects have been a problem – stoves, countertops, cabinets, window and door frames, patios. Repeat treatment as needed or after cleaning the area. Great in the garden for control of ants and sow bugs. Sprinkle along rows or around plants that need protection. Re-apply after rain.



1218207	2.5 lb. Jug	(4 lbs.)	\$14.75
1218210	10 lb. Bag	(13 lbs.)	\$29.25
1218204	50 lb. Bag	(*Free Shipping)	\$61.00

*FREE SHIPPING on 50 lb. bag only; ships via Ground ONLY.

Beneficial Nematodes

Combo packs of NemAttack™ & NemaSeek™ Beneficial Nematodes are your #1 defense against eggs



and developing stages of fleas and ticks. Use these two varieties of beneficial nematodes for your most comprehensive control.

See pages 16-17 for more information.

Electronic Flea Trap

Great Indoor Flea Control!

TARGET: Monitors and captures fleas.

DESCRIPTION: Each capture pad lasts for approx. 3 months or until filled with up to 10,000 fleas. Excellent flea control with no toxic chemicals! Light and heat attracts fleas 24 hours a day and draws fleas from up to 25 feet away. 6"x5" capture pad holds up to 10,000 fleas. Attractive, durable, patented design.

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



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

Perma-Guard Crawling Insect Control



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

TARGET: Any crawling or hopping pest insect.

DESCRIPTION: Perma-Guard Crawling Insect Control is Diatomaceous Earth mixed with crystalline silica. D.E. is the crushed fossilized shells of microorganisms; this fine dust clings easily to whatever passes through it. When an insect comes into contact with this dust, it proves fatal. The D.E. absorbs the waxy cuticle around the insect body, which causes it to dehydrate and die in as little as 48 hours. This physical method of killing eliminates the possibility of insects becoming immune to the insecticide, as can be the case with chemical controls. With regular applications of this OMRI certified 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 - 2 lb. Bag	(3 lbs.)	\$10.15
1218260	Perma-Guard - 5 lb. Bag	(6 lbs.)	\$18.35

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

MOSQUITO CONTROL

BIOLOGICAL CONTROL



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

Great Mosquito Control!

TARGET: Larval stages of mosquitoes & black flies.

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

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

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

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

1211101	Mosquito Dunks® - 6 Pack	(1 lb.)	\$13.95
1211103	Mosquito Dunks® - 20 Pack	(2 lbs.)	\$22.95
1211108	Quick Kill Mosquito Bits® - 8 oz.	(1 lb.)	\$10.95
1211136	Quick Kill Mosquito Bits® - 30 oz.	(3 lbs.)	\$17.80
1211150	AQUABAC® Granular Bti - 40 lb. - Free Shipping*		\$187.00
1211315	BONIDE® Mosquito Beater WSP - 24 Pouches (.5 lb.)		\$12.49
1211320	BONIDE® Mosquito Beater WSP - 80 Pouches (1.25 lbs.)		\$28.69

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

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



REPELLENTS

BONIDE® Mosquito Beater Granules



Simply Sprinkle These For Lasting Mosquito Relief!

TARGET: Mosquitoes, gnats & flies.

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

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

1211305	8 oz. - Treats 1,500 sq. ft.	(1 lb.)	\$8.99
1211310	1.3 lbs. - Treats 4,000 sq. ft.	(2.25 lbs.)	\$14.29



Mosquito Barrier®

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

TARGET: Mosquitoes, gnats and fleas.

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

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

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

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





PETS & FAMILY

Bug Bam!® Wristbands, Camp Grids & Pet Tags



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

TARGET: Mosquitoes, fleas and ticks.

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

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



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

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

BiteBlocker® Herbal Repellents

Protection From Biting Pests! "Deet Free"

BiteBlocker Insect Repellent Spray

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

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

BiteBlocker Xtreme Insect Repellent

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

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

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

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



Chig-R-Blok

Take Back Your Yard — Make The Outdoors Fun Again!

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

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



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

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

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

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

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

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



INSECTICIDES

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

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

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

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

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

Application Rates of BotaniGard ES

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

Application Rates of BotaniGard 22WP

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

BotaniGard ES

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

BotaniGard 22WP

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



Mycotrol® WPO

A New Formulation For An Old Favorite!

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

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

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

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



Mycotrol® ESO

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

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

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

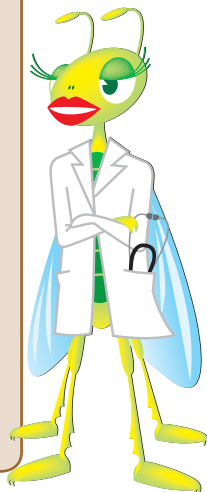
SUGGESTED USE: Mix well to form an emulsion. Apply using hand-held, ground and/or aerial spray and low volume application equipment. Make applications at the lowest height that is safe to reduce exposure of droplets to evaporation and wind. Spray to wet, but avoid run-off. Typically, it takes 7-10 days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

1332781	1 Quart	(3 lbs.)	\$97.99
1332782	1 Gallon	(10 lbs.)	\$349.99



"I suggest using natural insecticides to support your IPM program. Use beneficial insects and organisms to control developing stages of pests and our hard working botanical repellents to control adult stages of pests."

- Dr. Buglady



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	1 Gallon	(10 lbs.)	\$36.00
1274108	2.5 Gallons	(25 lbs.)	\$51.00
1274109	15 Gallon Drum	(150 lbs.)	\$250.00
1274110	30 Gallon Drum	(300 lbs.)	\$440.00
1274111	275 Gallon Tote	(2,752 lbs.)	CALL

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



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	32 oz. RTU Spray Bottle	(2.5 lbs.)	\$12.50
1555614	1 Pint Concentrate	(1.5 lbs.)	\$19.90

RTU cannot be shipped to the following states: ME, ND, RI, VT, 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	(2 lbs.)	\$11.89
1246603	BONIDE Neem Oil Concentrate -1 Pint	(1 lb.)	\$17.98



Monterey Take Down Spray

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

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

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

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

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

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



INSECTICIDES

PyGanic Crop Protection EC 1.4



A Broad-Spectrum That Can Handle Nearly Any Insect!

TARGET: Controls more than 100 different insects on virtually everything you grow, indoors and outdoors. Also effective against livestock pests.

DESCRIPTION: Provides immediate knockdown and continued control by harnessing the power of pyrethrum. This derivative of chrysanthemums is a potent non-selective insecticide; take care when using around bees and beneficial insects. Pyganic breaks down quickly and leaves no residual buildup, which helps to make resistance a non-issue and allows for worry-free repeat applications. There is no pre-harvest interval and an REI of 12 hours. Can be used alone or with spreaders or wetting agent.

SUGGESTED USE: Pyganic is most effective against insects in their early life cycle. Monitor your plants for insects and apply Pyganic as soon you see activity. Use 32 oz. per acre for most applications. Buffer the pH of the solution to 5.5-7.0 for top performance

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

Cannot be shipped to the following states: PR



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



Fall webworm

Monterey Garden Insect Spray Concentrate



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

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

DESCRIPTION: This OMRI certified 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.

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

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

1257900	Monterey Garden Insect Spray CONC.- 1 Pint	(2 lbs.)	\$16.99
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Cannot be shipped to the following states: DC



Molt-X™



An Excellent Knockdown Spray With Multiple Modes Of Insecticidal Action!

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

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

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

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

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



ROOT KNOT NEMATODE CONTROL



Root Knot Nematode

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

Monterey Nematode Control



Control Root Knot Nematodes!

TARGET: Controls plant parasitic pest nematodes and fungi.

DESCRIPTION: OMRI Listed Monterey Nematode Control uses Saponins of Quillaja saponaria to control plant parasitic nematodes and fungi. This easy-to-mix concentrate works wonders on lawns, vegetable gardens and ornamentals, as well as home orchards and vineyards. Can be applied prior to planting or used on established plants up to the day of harvest.



SUGGESTED USE: Can be applied using band or broadcast sprayers. Mix with water and use within 3 hours of mixing. Water treated area prior to application as well as after, though make sure to not over water. Do not apply solution if rain is forecasted within 24 hours.

- Application rate: Add 8 oz. for every 6 gal. of water per 1,000 sq. ft.; repeat every 7-14 days for 10 weeks in spring, apply single application after harvest.
- Lawns: Add 9 oz. for every 3-7 gal. of water per 1,000 sq. ft.; repeat every 5-10 days.

1555601 Monterey Nematode Control - Quart (2.5 lbs.) **\$35.00**

Cannot be shipped to the following states: AK, CO, DC, DE, ID, IL, IN, KS, MA, ME, MI, MN, MT, ND, NE, NH, NJ, NV, OH, OK, PA, RI, SD, UT, VT, WI, WV, WY

AzaMax™



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

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

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

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

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

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

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

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



Debug® Turbo



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

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



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

SUGGESTED USE:

Home & Garden

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

Lawn Care

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

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

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

DISEASE CONTROL

RootShield® Plus Granules & RootShield® Plus WP



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

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

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

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

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

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

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



Serenade®



OMRI Listed & NOP Certified, This Biofungicide Works Great For Treating A Broad Spectrum Of Plant Diseases.

TARGET: Controls & suppresses plant diseases including Black Spot, Powdery Mildew, Rust, Gray Mold, Late Blight, Scab and many more.

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

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

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



Actinovate® Lawn & Garden Fungicide



Prevents & Treats Lawn, Root & Foliar Diseases!

TARGET: Brown Patch (*Rhizoctonia*), Dollarspot (*Sclerotinia*), Take-all Patch (*Gaeumannomyces graminis*), *Pythium* Blights, *Pythium*, *Phytophthora*, *Rhizoctonia*, *Verticillium*, *Fusarium*, Late Blight, Powdery Mildew, Downy Mildew, Grey Mold (*Botrytis*), Fire Blight (*Erwinia*), Leaf Spots, Rusts and Black Spot (*Diplocarpon rosae*).

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

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

1420000	Actinovate Lawn & Garden 20 grams	\$16.00
1420001	Actinovate Lawn & Garden 2 oz.	\$27.00

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



RootShield® Home & Garden



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

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

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

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

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

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



OxiDate® 2.0



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

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



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

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

1222501	2.5 Gallons	(29 lbs.)	\$219.50
1222502	5 Gallons	(52 lbs.)	\$355.50

Call for larger sizes.

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

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

SaniDate® 5.0



An OMRI Listed Sanitizer/Disinfectant.

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

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



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

1222515	2.5 Gallons	(27 lbs.)	\$153.00
1222517	5 Gallons	(52 lbs.)	\$241.00

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

WARNING

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

SaniDate® Hard Surface Sanitizer



A Great Alternative to Chlorine Bleach, Phenol & Ammonia Cleaners.

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

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



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

1222510	SaniDate Hard Surface Sanitizer - 32 oz. RTU	(1 lb.)	\$9.00
1222511	SaniDate Hard Surface Sanitizer - 1 gal. RTU	(10 lbs.)	\$27.95

BioSafe Disease Control - Concentrate & RTU



Eliminate Bacteria & Fungi On Contact!

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



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

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

1222504	32 oz. RTU	(2 lbs.)	\$14.75
1222505	32 oz. RTS	(2 lbs.)	\$23.75

FLY ELIMINATORS



WHAT ARE FLY ELIMINATORS?

The Sensible Alternative To Pesticides

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

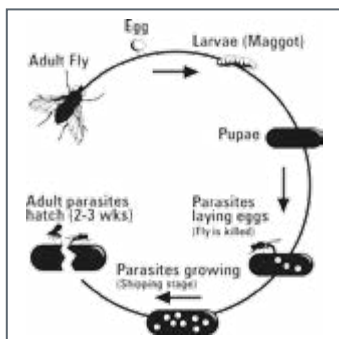


Adult Fly Eliminator emerging from fly pupa.

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

HOW DO FLY ELIMINATORS WORK?

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



Life cycle of the fly parasite.

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

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

Philadelphia Park Recommends ARBICO's Fly Eliminators

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



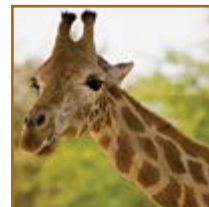
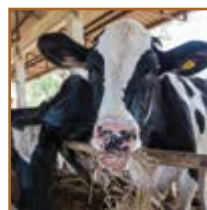
– Roy Smith, Former Track Manager of Philadelphia Park

WHO USES FLY ELIMINATORS?

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

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

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



HOW DO I USE FLY ELIMINATORS?

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

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



Fly Eliminators and wood shavings in packaging.

SPECIAL VIP PRICING

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

Only \$16.95
 Per Shipment for 2-5 Horses
 USPS Shipping Included in Prices!

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

Order Your Fly Control Program Today!
 VIP Pricing Valid Through Dec. 31, 2016.

Use Your Fly Eliminators the RIGHT Way:

RIGHT Time

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

RIGHT Place

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

RIGHT Amount

- The more Fly Eliminators, the fewer the flies

RIGHT Schedule

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

Churchill Downs Chooses ARBICO Organics

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

– Butch Lehr, Former Track Manager of Churchill Downs



Del Mar Thoroughbred Club Relies On ARBICO Organics

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

– Joe Harper, Chief Executive Officer of Del Mar



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

© 2016 Arizona Biological Control, Inc.

ADULT FLY CONTROL



ARBICO Organics™ Solar Fly Trap



Captures Hordes Of Flies!

TARGET: Adult flies.

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

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

1256001	ARBICO Organics Solar Fly Trap - Includes 1 Bait	\$86.00
1256002	ARBICO Organics Fly Bait for Solar Fly Trap	\$9.99
1256005	ARBICO Organics Solar Fly Trap - Includes 4 Baits	\$108.00

Volume Pricing!

1259990	ARBICO Organics Solar Fly Trap - 2 Pack	\$160.00
1259991	ARBICO Organics Solar Fly Trap - 3 Pack	\$225.00
1259992	ARBICO Organics Solar Fly Trap - 4 Pack	\$278.00
1259994	ARBICO Organics Solar Fly Trap - 6 Pack	\$405.00

*FREE SHIPPING via ground ONLY.

ARBICO Organics™ Holistic Fly Defense

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

TARGET: Rid your horses of biting flies.

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

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



Biting Fly Trap



No Poisons! No Baits! No Electricity!

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

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



unable to escape the stickiness. One trap can catch up to 5,000 flies! Each package contains the following: 1 fiberglass cylinder, 1 wooden stake, 2 brass fasteners, 2 giant paperclips, 1 sticky sleeve, 1 replacement sleeve (additional sleeves can be purchased as needed) and complete instructions. Weight - 1.5 lbs. Box size - 12 1/4 x 26 1/2 x 1 1/2 inches.

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

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

Insect-A-Peel Trap Systems

This Long Lasting Trap Is Perfect Around Barns!

TARGET: Flies and other flying pests.

DESCRIPTION: The revolutionary Insect-A-Peel Trap (IPS) uses modern science to trap moths and a host of other flying insects. Its bright yellow



color and state-of-the-art tubular design attracts pests from all directions during daylight hours. In addition, this design, which uses a 3" plastic pipe to hold the tube of yellow sticky plastic, is easy to set up, and will last 20-25 weeks. Every 3-7 days, just roll up the filled surface, exposing fresh yellow sticky plastic to attract the insect pests. You do not have to dispose of anything until the roll is full of dead insects!

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

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



1261201	1 Large Insect-A-Peel Trap	\$97.00
1261301	1 Hanging Insect-A-Peel Trap	\$54.00

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

MANURE MANAGEMENT

EM•1® Microbial Inoculant



Increase & Maximize Your Plants' Absorption Of Nutrients!

TARGET: Accelerate decomposition & reduce odors.

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

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



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

*Call for freight quote.

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

ODOR CONTROL

SCD Probiotics OdorAway



Remove Various Odors With Beneficial Bacteria!

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



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

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

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

BIOLOGICAL CONTROL

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

* See page 17 for free shipping details.

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

REPELLENTS

Aloe Herbal Horse Spray

Contains A Natural Sunscreen!

TARGET: Repel and kill flies and other insect pests.

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

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



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

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

FROST PROTECTION

Agribon

Agribon Row Covers Are An Affordable And Reliable Way To Protect Your Fruits, Vegetables, Fruit Trees And Ornamentals!

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

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

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

* Items in stock!

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

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

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

AG-19		
Lightweight (0.55 oz. per sq. yd.), protects to 28°F (provides up to 4°F protection), 85% light transmission. Does not require frames or hoops.		
SKU	Size	Retail
3000000	83" x 50'*	\$24.99
3000003	83" x 250'	\$59.99
3000004	83" x 2000'	\$290.00
3000041	10' x 50'*	\$29.99
3000042	10' x 250'	\$74.99
3000043	10' x 500'	\$149.00
3000045	14' x 1000'	\$288.00
3000046	20' x 1000'	\$435.00
3000048	30' x 1000'	\$592.00
3000049	35' x 1000'	\$693.00
3000050	40' x 1000'	\$900.00
3000051	45' x 1000'	\$945.00
3000052	50' x 300'	\$305.00
3000053	50' x 500'	\$520.00
3000054	50' x 1000'	\$945.00
3000040	61.5" x 3000'	\$360.00

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

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



Loop Hoops

Loop Hoops Are Easy-to-Use Supports For Floating Row Covers.

TARGET: Unique steel hoops that keep floating row covers off the plants.

DESCRIPTION: Made of sturdy galvanized steel to support light and medium weights of floating row cover. Easy to set-up and require no knots. Loop Hoops will survive many seasons of bad weather. Once row covers are no longer needed, loop hoops make excellent trellises!

SUGGESTED USE: Just set the Loop Hoops 10' apart and run twine through the tie loops on one side. Repeat on the second side and anchor at each end with a stake. Twine and stake are not included.

Dimensions: 23" H x 16" W

3000070	Loop Hoops - single	(2 lbs.)	\$5.00
3000073	Loop Hoops - 10 pack	(6 lbs.)	\$33.75
3000076	Loop Hoops - 20 pack	(11 lbs.)	\$62.00
3000079	Loop Hoops - 50 pack	(26 lbs.)	\$155.00
3000084	Loop Hoops - 100 pack	(51 lbs.)	\$250.00



Spun Bond Frost Blanket - Per Foot

Protect Your Plants Season After Season!

TARGET: Protects plants from insects and the elements.

DESCRIPTION: Spun Bond Covers are super-easy to use: place directly on the plant, & tuck in the sides. This creates a bubble that keeps the frost out and seals in the ground heat. The material is semi-permeable, which allows a small amount of sun and water to the plant. These covers are lightweight enough (14 mil, 2 oz. per sq. yd.) for even your most delicate plants and strong enough to move easily from one season to the next.

SUGGESTED USE: For frost protection, all sides of the cover must be "sealed" to the ground with rocks, wood, etc. Additional layers may be needed in severe cold.

1430070	24" W - Sold Per Foot	\$1.50*
1430071	36" W - Sold Per Foot	\$1.80*
1430072	48" W - Sold Per Foot	\$2.50*
1430073	60" W - Sold Per Foot	\$3.40*
1430074	72" W - Sold Per Foot	\$4.50*
1430075	126" W - Sold Per Foot	\$5.20*

*Call 800-827-2847 to Order



Harvest Guard™ Protective Covers

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

TARGET: Protect ornamentals, trees, plants & crops.

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

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

1269505	Bag - 8' x 6'	(1 lb.)	\$10.25
1269507	Covers - 10' x 15'	(2 lbs.)	\$12.50
1269509	Roll - 40" x 50'	(4 lbs.)	\$12.50



For Additional Season
Extender Solutions Visit
www.arbico-organics.com.



SEEDS & SEED STARTING

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



NATIVE SEEDS / SEARCH

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

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



SERO BIODYNAMIC SEEDS

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

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



SWEET GARDEN ORGANICS

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

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



TERROIR SEEDS

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

ARBICO Organics™ Rice Hulls

Get A Great Start on Germination!

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

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

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

1309002	1/4 cu. ft.	(3 lbs.)	\$8.99
1309003	1/2 cu. ft.	(6 lbs.)	\$14.50
1309004	1 cu. ft.	(10 lbs.)	\$23.50



Coco Coir Brick

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

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

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

SUGGESTED USE:

1. Mix with perlite and vermiculite to create an excellent seed starting mix.
2. Mix with perlite, vermiculite and compost to create a great potting soil for your container plantings and raised bed gardens.
3. Use as the bedding for the Worm Factory™ (see page 38) or any other vermicomposting bins.
4. Add to sandy soil to increase moisture retention.
5. Substrate for arachnid and reptile terrariums.

1308052	Coco Coir Brick - 250 g. (10 pack)	(7 lbs.)	\$14.50
1308053	Coco Coir Brick - 250 g. (20 pack)	(13 lbs.)	\$25.00
1308054	Coco Coir Brick - 250 g. (90 pack)	(52 lbs.)	\$79.95
1308060	Coco Coir Brick - 650 g.	(2 lbs.)	\$5.02
1308061	Coco Coir Brick - 650 g. (5 pack)	(7 lbs.)	\$14.00
1308062	Coco Coir Brick - 650 g. (10 pack)	(16 lbs.)	\$23.50
1308063	Coco Coir Brick - 650 g. (25 pack)	(36 lbs.)	\$49.95
1308064	Coco Coir Brick - 650 g. (40 pack)	(55 lbs.)	\$79.99
1308066	Coco Coir Brick - 5 kg.	(12.5 lbs.)	\$9.00
1308067	Coco Coir Brick - 5 kg. (2 pack)	(24 lbs.)	\$17.00
1308068	Coco Coir Brick - 5 kg. (3 pack)	(35 lbs.)	\$25.50
1308069	Coco Coir Brick - 5 kg. (4 pack)	(48 lbs.)	\$33.50
1308070	Coco Coir Brick - 5 kg. (5 pack)	(59 lbs.)	\$43.00





Soil Testing & Test Kits

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

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

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

- **When should I test?**

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

Luster Leaf® Rapitest® Soil Test Kit

A Quick Way To Test N-P-K!

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

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

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



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

Rapitest® Digital 3-Way Analyzer

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

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

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

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



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

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

TARGET: Unbalanced soil with unknown pH and NPK levels.

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

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



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

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

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

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

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



1275001	Soil Analysis		\$60.00
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SOIL ENHANCEMENTS

Veganic Special Sauce



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

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

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

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



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

Nitron's Humic Acid

Cost-Effective Way To Add Humus To Your Soil!

TARGET: Soils lacking humus.

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

Applying Liquid Humic acid has the following advantages:

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

SUGGESTED USE:

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

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



Insect Frass



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

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

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



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

CALL FOR LARGER SIZES

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

Nitron Formula A-35 With Micro-Nutrients

Improves Uptake Of Nutrients!

TARGET: Transplants, lawns, trees and bare root plants.

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

SUGGESTED USE: 1 quart/2,500 sq. ft. or 5 gallons/acre.

1320101 Nitron Formula A-35 - 1 Pt. (2 lbs.) **\$10.70**
1320106 Nitron Formula A-35 - 1 Qt. (3 lbs.) **\$18.45**
1320103 Nitron Formula A-35 - 1 Gal. (10 lbs.) **\$44.00**
1320104 Nitron Formula A-35 - 5 Gal. (53 lbs.) **\$142.00**

Call for larger sizes.

This product not available for sale or shipping in the following states: AZ



ARBICO Organics™ Compost Plus

Our Premium Formula – Made Exclusively At ARBICO Organics!

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

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

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

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

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



ARBICO Organics™ Compost Tea Bag

The Healthy Elixir For Your Plants!

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

DESCRIPTION: A highly concentrated extract of beneficial microorganisms.

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

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

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

TARGET: Soils lacking nutrients and microorganisms.

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



Suggested Use - Earthworm Castings:	
Seedlings:	Use up to 20% Earthworm Castings by volume in potting mix.
Vegetables & Annuals:	Side dress with 1/2 cup of Earthworm Castings per plant every 2-4 weeks during growing season.
Transplants:	Place 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	1 lb. Bag	(1.25 lbs.)	\$4.95
1308201	5 lb. Bag	(6 lbs.)	\$15.20
1308202	10 lb. Bag	(11 lbs.)	\$25.00
1308203	25 lb. Bag	(27 lbs.)	\$47.95

ARBICO Organics™ Root Maximizer™ Mycorrhizal Fungi

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

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

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

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

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



COMPOSTING

All Seasons Indoor Composter® Kit



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

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

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

Bokashi Ingredients:

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

SUGGESTED USE:

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



- | | | |
|----------------|---|----------------|
| 1202730 | SCD All Seasons Bokashi - 1 gallon bag | \$13.95 |
| 1202731 | SCD Indoor Composter Kit (Bucket & bag) | \$43.95 |

EM•1® Rice Bran Bokashi Kit

Make Foul Odors Go Away!

TARGET: Smelly kitchen scraps destined for the compost.

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

SUGGESTED USE:

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

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



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|----------------|---|-----------|----------------|
| 1202401 | 1 Food Waste Fermenter | (5 lbs.) | \$66.50 |
| 1202402 | 2 lb. Bag EM-1® Rice Bran Bokashi | (3 lbs.) | \$16.00 |
| 1202420 | 5 Gallon Bucket EM-1® Rice Bran Bokashi | (22 lbs.) | \$58.00 |
| 1989599 | 1 Bokashi Compost Kit | (10 lbs.) | \$80.00 |

The Worm Factory

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

TARGET: Compostable kitchen scraps and shredded papers.

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



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

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|----------------|-----------------------------------|-----------|----------------|
| 1308011 | Worm Factory 3-Tray System | (15 lbs.) | \$79.95 |
| | <i>Black, Terracotta or Green</i> | | |
| 1308012 | Worm Factory 5-Tray System | (16 lbs.) | \$99.95 |
| | <i>Black, Terracotta or Green</i> | | |
| 1308010 | Worm Factory - 1 Replacement Tray | (16 lbs.) | \$7.00 |
| | <i>Black, Terracotta or Green</i> | | |

ARBICO Organics™ Earthworms - *Eisenia fetida*

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

TARGET: Vermicomposting bins and soils.

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



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

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

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

GOPHER & MOLE

Chase™ Granular Mole & Gopher Repellent

Biodegradable, Environmentally Friendly & Easy-To-ApPLY.

TARGET: Gophers & moles.

DESCRIPTION: This biodegradable, environmentally friendly and easy to apply granular repellent will help eliminate moles and gophers from lawns and gardens. This product can be used when tunnels or cone shaped mounds are present and from the spring until late in the fall without yellowing lawns. When the active ingredient of the repellent is ingested by moles or gophers, it causes digestive interruption, deterring pests from inhabiting treated areas.

Active Ingredients: Castor Oil 19.5%, Sodium Lauryl Sulfate 4.5%.

Inert Ingredients: Corn Cob Granules 76.0%.

SUGGESTED USE:

- Use at a rate of approximately 1 lb. / 1,000 sq. ft.
- Slowly adjust and test the rate of dispersal when using a hand spreader. Start out with an area of about 7 ft. by 7 ft. on a low speed and use only about 1/2 lb. of repellent.

1287900	6 lbs.	(10 lbs.)	\$23.50
1287901	32 lbs.	(40 lbs.)	\$79.00



Chase™ Liquid Mole & Gopher Repellent

Easy-To-Use Liquid Repellent Helps Eliminate Moles, Gophers, Voles, Armadillos And Other Burrowing Animals From Lawns & Gardens!

TARGET: Gophers & moles.

DESCRIPTION: Made from castor oil, this biodegradable, environmentally friendly and easy to apply liquid repellent will help eliminate pests like moles and gophers from lawns and gardens. This product can be used when tunnels or cone shaped mounds are present and from the spring until late in the fall without yellowing lawns. When the active ingredient of the repellent is ingested by pests it causes digestive interruption, deterring pests from inhabiting treated areas.

Active Ingredients: Castor Oil USP or equivalent 65%, Sodium Lauryl Sulfate 15%.

Inert Ingredients: Water 20.0%.

SUGGESTED USE:

- If soil is dry, water for fifteen minutes before applying Chase.
- Shake or stir well before using. Begin spraying Chase to area, using a systematic method to assure full coverage. In order to ensure complete treatment, it's recommended that you slightly overlap each area.

1287902	32 oz.	(3 lbs.)	\$25.00
1287903	1 Gallon	(10 lbs.)	\$48.50



BIRD CONTROL

Nite Guard Repellent Tape



A Bright And Shiny Object That Keeps The Birds Away.

TARGET: Daytime predators that fly such as birds and hawks and land-based predators such as raccoons, rabbits, cats, deer and more.



DESCRIPTION: This holographic tape effectively repels birds and animals by making a loud crackling sound and flashing with colors and lights as it moves in the wind. This will unsettle even the most daring of predators. This extra wide, heavy duty tape can stand up to the elements longer than thinner varieties. While birds and animals may not like the sounds and colors of this tape, most people find this a lovely addition to their yards, gardens and orchards.

SUGGESTED USE: Tape can be attached to a tree, fence, porch or building by running a string through it or with duct tape. For flying predators, place above the area you want to protect. For ground predators, place at their eye level

1269920	2"x100' Roll	(.5 lb.)	\$14.95
1269921	2-Pack - 2"x100' Roll	(1 lb.)	\$20.95

Holographic Scare Tape



Protect Your Trees And Fruit From Thieving Birds With This Flashy Tape!

TARGET: For use against flying and ground predators in home gardens, fruit trees, orchards, large gardens, berry patches grapevines and more.

DESCRIPTION: If birds are enjoying too much of what you grow, this bright tape provides an effective and humane solution. The snap and shine of this ribbon will frighten and deter even the most persistent of predators. For optimum results, tape should be installed shortly before crops ripen and feeding begins. Remove tape when harvest is over. This keeps the birds from getting used to the tape and losing their fear of it. This 3/4" x 100' roll of tape is proudly made in the USA.

SUGGESTED USE: If birds are enjoying too much of what you grow, this bright tape provides an effective and humane solution. The snap and shine of this ribbon will frighten and deter even the most persistent of predators. For optimum results, tape should be installed shortly before crops ripen and feeding begins. Remove tape when harvest is over. This keeps the birds from getting used to the tape and losing their fear of it. This 3/4" x 100' roll of tape is proudly made in the USA.

1269902	Holographic Scare Tape	(.5 lb.)	\$5.49
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ANIMAL CONTROL

REPELLENTS & TRAPS

Innovative Technology Ultrasonic Rodent Repeller

Plug-In Ultra-Sonic Rodent Control.

TARGET: Rodents.

DESCRIPTION: You can chase away those mice, voles, rats and other unwanted rodents with a product that really works! Ultrasonic Rodent Repellers are the perfect addition to your indoor rodent control measures. Perfect for stables, outbuildings and the house, too. One unit is required per average-sized room.



SUGGESTED USE: Simply plug your Rodent Repeller into an outlet 2-4 feet above the floor, aimed at the area you wish to control. It costs less than 20 cents a month to operate. Should not be used around pet rodents or rabbits.

90 Day Money-Back Guarantee, Plus a 3-year Manufacturer's Warranty.

1255005	3-Pack Single Plug-in Speaker	(1 lb.)	\$27.00
1255007	3 Speaker Plug-in	(1 lb.)	\$26.00

BONIDE® Mouse Magic Mouse Repellent

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

TARGET: Mice.

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



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

1287710	4 Pack	(.5 lb.)	\$9.00
1287711	12 Pack	(1 lb.)	\$22.50

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

Full Size Traps Available Online.
Visit www.arbico-organics.com.

The Smart Mouse Trap

A Perfect & Friendly Solution For Trapping Pesky Mice!

TARGET: Mice.

DESCRIPTION: This innovative, no-kill and easy-to-use trap is made of green transparent plastic and has two stainless steel springs that maneuver the special trap door. As a mouse enters the trap to retrieve a snack, its minimal weight releases the spring trigger closing the door behind them! The little critter will then remain in the trap enjoying its treat until safely released back into the wild. Measures 3" x 7" x 2.5".



SUGGESTED USE: Bait with a "saltine" cracker (add peanut butter for extra appeal) in the bait holder, set the trap and check frequently. Release mouse as soon as possible! Trap can be cleaned and reused.

1255001	Smart Mouse Trap - 1 Per Box	(.64 lb.)	\$14.20
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Repeater™ & Little Pete® Multiple Catch Mouse Traps

Catch & Release Multiple Mice At Once!

TARGET: Mice.

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



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

1255101	Little Pete Multiple Catch Mouse Trap	(1.5 lbs.)	\$14.75
1255100	Repeater Multiple Catch Mouse Trap	(1.5 lbs.)	\$16.55

BONIDE® Repels-All® Animal Repellent

Natural Ingredients That Repel A Variety Of Critters!

TARGET: Armadillos, beavers, birds, cats, crows, chipmunks, deer, groundhogs, mice, porcupines, rabbits, raccoons, rats, skunks, shrews, and voles.

DESCRIPTION: A comprehensive animal repellent for use on plants and property structures for up to 2 months per each application. Containing a mixture of dried blood, putrescent egg, garlic, fish oil, cloves, and onions it will repel animals with both smell and taste.



SUGGESTED USE: Rainfast after 6 hours. Do not use on edibles. Shake before using and mix the concentrate with appropriate amount of water. The 1 qt. concentrate will make up to 2 gallons of repellent. Apply as needed with any type of sprayer and water afterwards.

1287601	1 Quart RTU	(3 lbs.)	\$15.28
1287600	1 Quart Concentrate	(3 lbs.)	\$21.50

RTU cannot be shipped to the following states: IN, NM

Concentrate cannot be shipped to the following states: AK, IN, NM

Lice B Gone

This Lice Treatment Kit Removes Lice & Nits Without Harmful Pesticides Or Irritating Chemicals.

TARGET: Lice and nits.

DESCRIPTION: Lice-B-Gone is a pesticide-free multi-enzyme shampoo made from vegetable extracts. This shampoo works when other formulations with pyrethroids may not. Lice-B-Gone removes lice and nits without harmful pesticides or irritating chemicals. Most cases require only one application.



1888806	Lice B Gone Cap	(.5 lb.)	\$1.60
1888805	Lice B Gone Nit Comb	(.25 lb.)	\$3.15
1888808	Lice B Gone - 4 oz.	(.5 lb.)	8.98
1888809	Lice B Gone - 16 oz.	(1.5 lbs.)	\$18.97
1888810	Lice B Gone - 1 Gallon	(9 lbs.)	\$69.95
1888802	Lice B Gone Kit - 4 oz. (2 caps/1 comb)	(1 lb.)	\$13.50
1888804	Lice B Gone Kit - 16 oz. (2 caps/1 comb)	(2 lbs.)	\$19.95
1888803	Lice B Gone Kit - 1 Gallon with sprayer	(9 lbs.)	\$74.50
	(2 caps/1 comb)		

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

Treats Bedbugs & Crawling Pest Insects!

TARGET: Crawling insects like ants, bedbugs, boxelder bugs, cockroaches, crickets, fleas, silverfish, ticks, sowbugs, millipedes and houseflies.

DESCRIPTION: It is composed of finely milled fossilized shells of minuscule organisms called diatoms with no other additives. The microscopically fine, sharp edges desiccate the insects' exoskeletons upon contact, and the pests dehydrate and die within 1-2 days. It is odorless, nontoxic. It remains effective as long as the product stays dry. This product is food grade.



SUGGESTED USE: Squeeze the container to apply light puffs to mattress surfaces, tufts and seams. Treat bed parts, joints and interior areas. Treat all cracks and crevices in the bedroom. For Fleas: Treat pet quarters, bedding, indoor kennel areas, and pet resting areas. Replace any product that becomes wet. Apply monthly or as needed. For Ants and other crawling pests: Sprinkle in light layers under stoves, cabinets, sinks, garbage cans, along window and door frames, sewer pipes and drains, or anywhere crawling insects frequent. Repeat treatment as needed.

1219303	7 oz. Puffer	(1 lb.)	\$7.99
1219305	7 oz. Puffer - Case of 12	(12 lbs.)	\$69.00



Avenger® Natural Bed Bug Killer™

Works Within Minutes Against All Stages Of Bed Bugs Without Harsh Pesticides!

TARGET: Bed bugs - *Cimex lectularius*.

DESCRIPTION: Contains plant extracts of *Eugenia Carophylla*, *Mentha Piperita*, and Sodium Lauryl Sulphate from Coconut Extract.

SUGGESTED USE: Spray onto surfaces such as cracks, bed frames, below beds, any nearby wood surfaces and baseboards. Make sure you treat the mattress with a light application of Bed Bug Killer. Apply to the tufts, folds, seams of the mattress and the underside of the box spring. Spray any other furniture in the room, including cracks and crevices in wooden furniture. Re-apply in 2 weeks and repeat 2-3 times.

Convenient Travel Pack protects you and your family when you travel! TSA approved sizes!

1888815	24 oz. RTU	(2 lbs.)	\$20.50
1888817	1 Gallon Spray RTU	(10 lbs.)	\$81.00
1888819	3 oz. Travel Size (4-Pack)	(2 lbs.)	\$36.99



First Response Bed Bug Monitor

Detect & Trap Bed Bugs!

TARGET: Bed bugs.

DESCRIPTION: A portable and easy-to-use monitoring and trapping device for bed bugs. Uses heat, carbon dioxide, and a pheromone lure to attract and trap the bed bug. You can use them at home or while traveling. The traps are good overnight and are designed to be used to detect the presence of all stages of bedbugs.

SUGGESTED USE: No need for electricity. Follow directions in the package to ensure optimal success.

1240303	First response Bed Bug Monitor	(1 lb.)	\$14.40
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ClimbUp®

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

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



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

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

1250101	ClimbUp Original 4-pack	(1 lb.)	\$13.50
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CRAWLING INSECT 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	1 lb. Shaker Can	(1 lb.)	\$11.50
1257896	2.5 lb. Jug	(2.5 lbs.)	\$21.50

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

Perma-Guard Crawling Insect Control



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

TARGET: Any crawling or hopping pest insect.

DESCRIPTION: Perma-Guard Crawling Insect Control is Diatomaceous Earth mixed with crystalline silica. D.E. is the crushed fossilized shells of microorganisms; this fine dust clings easily to whatever passes through it. When an insect comes into contact with this dust, it proves fatal. The D.E. absorbs the waxy cuticle around the insect body, which causes it to dehydrate and die in as little as 48 hours. This physical method of killing eliminates the possibility of insects becoming immune to the insecticide, as can be the case with chemical controls. With regular applications of this OMRI certified 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 - 2 lb. Bag	(3 lbs.)	\$10.15
1218260	Perma-Guard - 5 lb. Bag	(6 lbs.)	\$18.35

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

J.T. Eaton™ Answer® Boric Acid Insecticidal Dust

A Boric Acid Barrier That Beats Pests!

TARGET: Roaches, palmetto bugs, ants, silverfish, fleas & more.

DESCRIPTION: Boric acid is the refined crystalline material derived from Borax. When ingested by an insect, it causes digestion disruption, and the insect starves to death. When crawling insects return to their nests to die, other insects consume them, which spreads the insecticide, killing even more.

SUGGESTED USE: The 16 oz. bottle has a puffer top to easily spread its contents anywhere crawling insects may enter or hide, such as windowsills, doorsills, under cabinets, behind appliances, around floor drains, water pipes and cracks & crevices along baseboards. Ingredients: Contains boric acid and non-caking agent.



1452420	16 oz. Puffer Bottle	(1.5 lbs.)	\$8.00
1452425	5 lb. Tamper-evident Pail	(6 lbs.)	\$25.00
1452430	25 lb. Tamper-evident Pail	(27 lbs.)	\$67.50

Orange Guard - Natural Insect Spray



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

TARGET: Crawling pest insects.

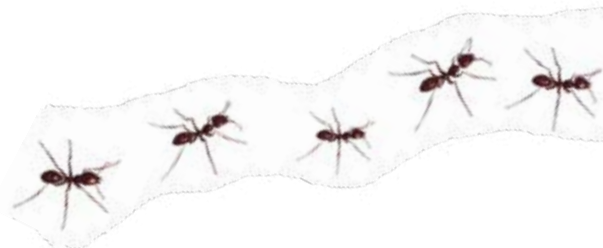
DESCRIPTION: Orange Guard is guaranteed to provide effective control against a broad range of insects including cockroaches, ants, fleas, locusts, weevils, and many other hard to control insects. Orange Guard contains d-Limonene, which is steam distilled orange peel oil. Orange Guard may be used around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

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



1460001	32 oz. Spray Bottle	(3 lbs.)	\$10.97
1460002	1 Gallon with Sprayer	(10 lbs.)	\$34.00
1460003	Replacement Sprayer	(.25 lb.)	\$5.30

Dozens of Botanical & Biological Insecticides Available Online. Visit www.arbico-organics.com.



Safer® Brand Ant & Crawling Insect Killer, Diatomaceous Earth

Long Lasting, Odorless, Non-Staining Insect Control Powder!

TARGET: Kills cockroaches, ants, silverfish, fleas and many other crawling insects.

DESCRIPTION: DE is an odorless, nontoxic, white powder that is made of finely milled fossilized shells of organisms called diatoms. DE slices the waxy coat of insects causing pests to dehydrate and die. Use the Dustin Mizer (see online) for easy application.

SUGGESTED USE: For indoor & outdoor use, sprinkle a light layer of Diatomaceous Earth in areas where pests frequent, including under stoves, cabinets, sinks, garbage cans, window and door frames and sills, entrance ways, sewer pipes and drains, and in cracks and crevices. Repeat treatment as needed. Use on hard surfaces only.



1219301	7 oz. Bottle	(1 lb.)	\$9.00
1256701	4 lb. Bag	(5 lbs.)	\$14.40

Cannot be shipped to the following states: DC

Diatomaceous Earth – Food Grade

Multi-Purpose Food Grade DE.

TARGET: Pest insects, anti-parasite for horses & livestock.

DESCRIPTION: Diatomaceous Earth (DE) is an odorless powder that has an abrasive quality similar to fine pumice. Is effective for deterring insect pests that crawl and have an exoskeleton. Use to combat: ants, bedbugs, crickets, cockroaches, earwigs, silverfish, and more.

SUGGESTED USE: Sprinkle a light layer where crawling insects have been a problem – stoves, countertops, cabinets, window and door frames, patios. Repeat treatment as needed or after cleaning the area. Great in the garden for control of ants and sow bugs. Sprinkle along rows or around plants that need protection. Re-apply after rain.



1218207	2.5 lb. Jug	(4 lbs.)	\$14.75
1218210	10 lb. Bag	(13 lbs.)	\$29.25
1218204	50 lb. Bag	(*Free Shipping)	\$61.00



*FREE SHIPPING on 50 lb. bag only; ships via Ground ONLY.

Beneficial Nematodes - Triple Threat

Biological Control For Crawling Insects!

The Triple-Threat Combo includes one package of each of the Beneficial Nematodes that ARBICO Organics supplies: *Heterorhabditis bacteriophora*, *Steinernema feltiae* and *Steinernema carpocapsae*.



Use the Triple Threat to combat a broad variety of soil dwelling pests! For more info, see pages 16-17!

Essentria™ G Granular Insecticide

A Granular That Handles A Handful Of Outdoor Pests!

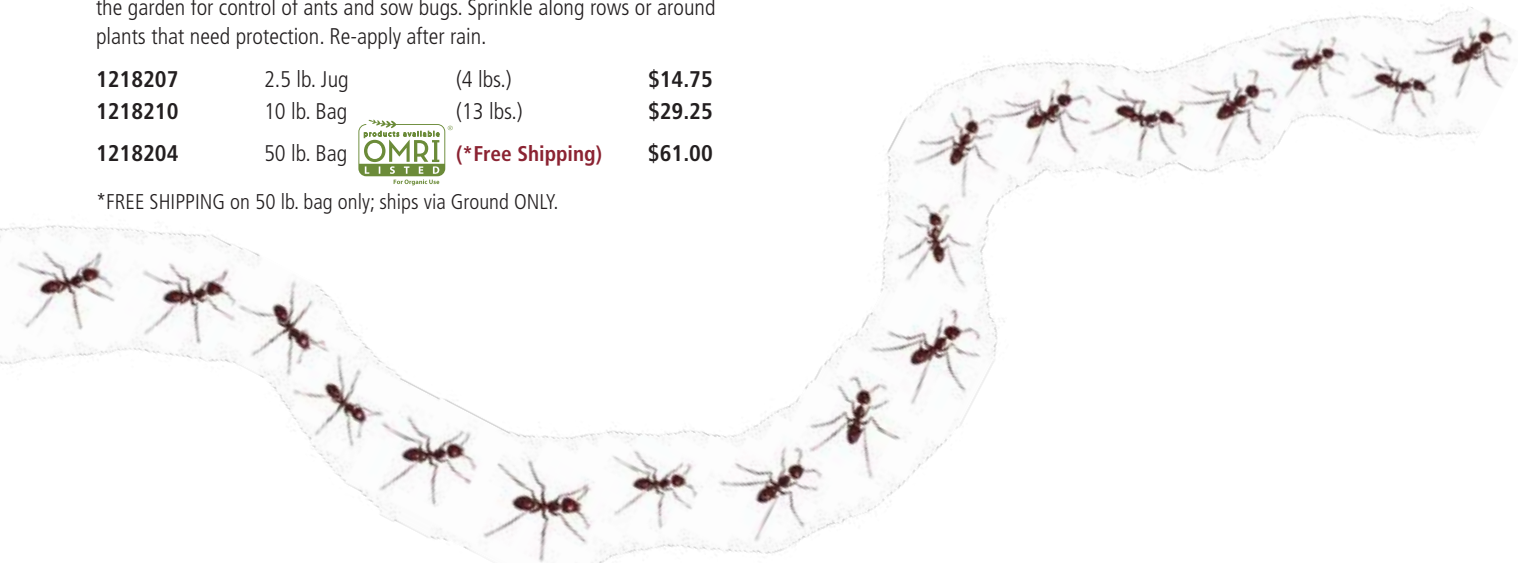
TARGET: Ants, bermuda grass mites, centipedes, chiggers, chinch bugs, clover mites, cockroaches, crickets, earwigs, fall armyworms, fleas, leafhoppers, millipedes, sowbugs/pillbugs, and other insect pests.

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

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



1273050	Essentria G Granular Insecticide - 22 lbs.	(25 lbs.)	\$67.50
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INDOOR PEST TRAPS

Revenge® Pantry Moth Trap

This Pantry Moth Trap Is Environmentally Sound And Uses Pheromone Lures To Attract The Moths & Trap Them!

TARGET: Adult moths. (Indian meal moths, almond moths and raisin moths)

DESCRIPTION: This trap attracts and captures adult flour moths. These moths are found in flour, rice, crackers, dog food, bird seed and cereal. Trap works by luring male moths into trap with a pheromone (insect hormone) that female moths use to attract males for mating. Reducing the number of male moths reduces egg laying and mating. It is a good idea to keep a few of these traps on hand. Traps work without harmful chemicals!

SUGGESTED USE: Use one or two traps for an average sized room or closet and they will last 3 months.

1280302	Revenge Pantry Moth Trap - 2 Pack	(.5 lb.)	\$6.10
1280303	Revenge Pantry Moth Trap - 2 Per Pack/Pack of 3	(1 lb.)	\$17.25
1280304	Revenge Pantry Moth Trap - 2 Per Pack/Pack of 6	(1.5 lbs.)	\$31.50
1280305	Revenge Pantry Moth Trap - 2 Per Pack/Pack of 12	(2 lbs.)	\$60.00



BioCare® Clothes Moth Trap

Uses A Natural Pheromone Lure!

TARGET: Adult male clothes moths.

DESCRIPTION: The Clothes Moth Trap attracts and captures adult male clothes moths. It signals when an infestation is present, but does not control larvae on clothing or personal objects. Female moths are especially attracted to oily or soiled fabrics, where they lay their eggs. The moths avoid light and are therefore difficult to find and identify. The Clothes Moth Trap catches webbing clothes moths during their mating season by using a natural pheromone lure. If moths are found in the trap, take immediate measures to control the larvae. Search out damaged fabrics and destroy, dry clean or freeze them (in a deep freeze for at least 14 days).

SUGGESTED USE: Open box carefully. Remove inner parts. Peel release paper from enclosed sticky pad. Remove lure from foil pouch and place in center of sticky pad. Fold top and bottom flaps inside box. Insert pad as shown on back of package. Place trap where moths occur (bedroom closets). Use tab on side of box to pin trap to a wall at eye level. Replace every 12 weeks, or sooner if full of insects. Use traps all year round.

1260702	Clothes Moth Trap	(.5 lb.)	\$8.35
1260703	Clothes Moth Trap - Pack of 3	(1 lb.)	\$23.25
1260704	Clothes Moth Trap - Pack of 6	(1.5 lbs.)	\$42.00
1260705	Clothes Moth Trap - Pack of 12	(2 lbs.)	\$81.00



Terro® Ant Baits

Two Ways To Get Rid Of Ants!

TARGET: Sugar and grease-eating ants including argentine, ghost, cornfield, pavement, acrobat, white footed, little black, odorous house, crazy and big headed ants.

DESCRIPTION: Comes in 2 formulations, RTU bait stations and Build-Your-Own.

SUGGESTED USE: Locate indoors or outdoors. Use remaining bait to make your own bait stations with paper or cardboard.

1257403	6 (pre-filled) Bait Stations	(.5 lb.)	\$7.89
1257401	Build-Your-Own Ant Killer Kit	(.25 lb.)	\$5.40



BioCare® Window Fly Trap

A More Attractive Way To Capture Flies!

TARGET: Houseflies, cluster flies, garbage flies, blowflies, or blue bottle flies.

DESCRIPTION: Designed to capture flies in your southern and western exposure windows, which they are naturally attracted to. Unobtrusive, these clear sticky traps have a small blue pattern on them and they utilize a pheromone attractant and adhesive to lure and trap unwanted flies.

SUGGESTED USE: Peel off paper and attach to windows, tiles, metal, or wooden surfaces. Once placed, remove other paper to reveal sticky trapping side. Replace trap every 2-3 months or when full. Dispose in garbage.

1280601	Window Fly Trap - 4-Pack	(.2 lb.)	\$4.75
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Glass Fruit Fly Trap

An Elegant Solution!

TARGET: Fruit flies.

DESCRIPTION: Made from beautiful colored glass! This glass jar is 5 inches tall, has a unique design – shaped like a mini volcano, and uses a bait made from apple fruit essence, a floral odor attractant, hexanol (a fruit essence).

SUGGESTED USE: Mix included bait with water and dishwashing soap and pour into the trap. Bait is good for 10-14 days.

1280903	Glass Fruit Fly Trap w/Lure	(1.25 lbs.)	\$13.95
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BioCare® Spider & Silverfish Trap

Purge Your House Of Creeping, Scurrying, Crawling & Scuttling Pests!

TARGET: Spiders & Silverfish.

DESCRIPTION: Rid yourself of silverfish and many types

of spiders found running around your home with this pesticide-free trap. Can be safely used around children, pets and food. Each package contains 3 disposable sticky baited traps, which will last up to 3 months.



SUGGESTED USE: Place traps near doorways, along baseboards and in the corners of rooms. Dispose it when full.

1280200	Spider & Silverfish Jumbo	(.25 lb.)	\$9.25
1280201	Spider & Silverfish Jumbo - Pack of 3	(1 lb.)	\$23.50
1280202	Spider & Silverfish Jumbo - Pack of 6	(2 lbs.)	\$44.50
1280203	Spider & Silverfish Jumbo - Pack of 12	(2.5 lbs.)	\$84.00

BioCare® Indoor & Outdoor Stink Bug Traps

Trap Destructive Stink Bugs With This Pesticide-Free Trap!

TARGET: Stink bugs.

DESCRIPTION: As outdoor temperatures cool, Brown Marmorated Stink Bugs seek the warmth of dwellings to overwinter. Catch these pests when they come inside or get them outside before they can get in. This 2 count package includes a pheromone lure for each trap that will last up to 6 weeks. Full instructions on packaging.



SUGGESTED USE: This lure is an attractant so place traps where you want the bugs to go. Outside: Place 1- 2 ft. inside the tree canopy or hang on poles throughout the yard-particularly at the periphery. Use 1-3 traps per tree or 1 trap every 25-30 ft.

1240302	Indoor & Outdoor Stink Bug Traps	(1 lb.)	\$14.85
1240306	Indoor & Outdoor Stink Bug Lures	(.4 lb.)	\$9.97



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	Cockroach Traps - 6-Pack	(.5 lb.)	\$8.00
1260202	Cockroach Traps - (2) 6-Packs	(1 lb.)	\$14.75
1260203	Cockroach Traps - (4) 6-Packs	(2 lbs.)	\$26.00

J.T. Eaton™ Large Spider & Cricket Trap



Where There Are Crickets There Is Something Bigger Feeding On Them!

TARGET: Works best on insects that jump or hop but will capture others that are unlucky enough to crawl on it.

DESCRIPTION: The super sticky glue on this trap is strong enough to hold a large spider but will not stick to your hands. It is also thick enough that the insects will sink down into it for a secure capture. The adhesive in this trap has an alluring sweet cherry scent and is non-drying and non-flowing and designed to withstand a wide range of temperatures and maintain its efficacy.



SUGGESTED USE: Place underneath furniture, cabinets or in corners. Remove and replace when trap is full. Not recommended for use outdoors as it could attach to wildlife, pets or children.

1452440	Large Spider & Cricket Trap	(.5 lb.)	\$5.90
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CATALOG INDEX

Actinovate® Lawn & Garden Fungicide.....	26	Fungus Gnat Predator - <i>Stratiolaelaps scimitus</i>	11	Rapitest® Digital 3-Way Analyzer.....	35
Agribon.....	32	Glass Fruit Fly Trap.....	44	Red Scale Parasite - <i>Aphytis melinus</i>	12
All Seasons Indoor Composter® Kit.....	38	Green Lacewings - <i>Chrysoperla rufilabris</i>	5	Repeater™/Little Pete® Multiple Catch Mouse Traps.....	40
Aloe Herbal Horse Spray.....	31	Harvest Guard™ Protective Covers.....	33	Revenge® Pantry Moth Trap.....	44
Aphid Parasite - <i>Aphidius abdominalis</i>	6	Holographic Scare Tape.....	39	RootShield® Home & Garden.....	26
Aphid Parasite - <i>Aphidius colemani</i>	6	Innovative Technology Ultrasonic Rodent Repeller.....	40	RootShield® Plus Granules & RootShield® Plus WP.....	26
Aphid Parasite - <i>Aphidius ervi</i>	6	Insect Frass.....	36	Rove Beetle - <i>Dalotia coriaria</i> (=Atheta coriaria).....	11
Aphid Predator - <i>Aphidoletes aphidimyza</i>	6	Insect-A-Peel Trap Systems.....	30	Safer® Brand Ant & Crawling Insect Killer, DE.....	43
ARBICO Organics™ Compost Plus.....	37	Introduction to Beneficials Kit.....	4	SaniDate® 5.0.....	27
ARBICO Organics™ Compost Tea Bag.....	37	J.T. Eaton™ Answer® Boric Acid Insecticidal Dust.....	42	SaniDate® Hard Surface Sanitizer.....	27
ARBICO Organics™ Earthworm Castings.....	37	J.T. Eaton™ Kills Bedbugs & Crawling Insect Powder.....	41	SCD Probiotics OdorAway.....	31
ARBICO Organics™ Earthworms - <i>Eisenia fetida</i>	38	J.T. Eaton™ Large Spider & Cricket Trap.....	45	Scentry Multigard Traps.....	15
ARBICO Organics™ Fly Eliminators.....	28-29	Ladybugs - <i>Hippodamia convergens</i>	5	Seeds.....	34
ARBICO Organics™ Good Bug Blend.....	4	LaMotte Garden Guide Soil Test Kit.....	35	Serenade®.....	26
ARBICO Organics™ Good Bug Power Meal.....	4	Lice B Gone.....	41	Soil Analysis.....	35
ARBICO Organics™ Holistic Fly Defense.....	30	Loop Hoops.....	33	Spider Mite Destroyer - <i>Feltiella acarisuga</i>	9
ARBICO Organics™ Rice Hulls.....	34	Luster Leaf® Rapitest® Soil Test Kit.....	35	Spider Mite Destroyer - <i>Stethorus punctillum</i>	10
ARBICO Organics™ Root Maximizer™.....	37	Mealybug Destroyer - <i>Cryptolaemus montrouzieri</i>	12	Spun Bond Frost Blanket.....	33
ARBICO Organics™ Solar Fly Trap.....	30	Mealybug Parasitoid - <i>Anagyrus pseudococci</i>	12	Sticky Traps.....	14
Assassin Bug - <i>Zelus renardii</i>	5	Melissa, Lemon & Cinnamon Leaf Essential Oils.....	13	Stiky Stuff Sticky Coating.....	13
Avenger® Natural Bed Bug Killer™.....	41	Mexican Bean Beetle Parasite - <i>Pediobius foveolatus</i>	11	Stiky™ Plant Stakes.....	14
AzaMax™.....	25	Milky Spore Powder.....	18	Stiky™ Strips Yellow Sticky Traps.....	14
Beneficial Nematodes.....	16-17	Minute Pirate Bug - <i>Orius insidiosus</i>	6	Surround® WP.....	18
BioCare® Clothes Moth Trap.....	44	Mite Predator - <i>Amblyseius andersoni</i>	8	Terro® Ant Baits.....	44
BioCare® Cockroach Traps.....	45	Mite Predator - <i>Amblyseius swirskii</i>	8	The Smart Mouse Trap.....	40
BioCare® Gnat Stix.....	15	Mite Predator - <i>Galendromus occidentalis</i>	9	The Worm Factory.....	38
BioCare® Indoor & Outdoor Stink Bug Traps.....	45	Mite Predator - <i>Mesoseiulus longipes</i>	9	Thrips Predator - <i>Neoseiulus cucumeris</i>	11
BioCare® Spider & Silverfish Trap.....	45	Mite Predator - <i>Neoseiulus californicus</i>	9	Thuricide - Liquid Concentrate.....	24
BioCare® Window Fly Trap.....	44	Mite Predator - <i>Neoseiulus</i> (=Amblyseius) <i>fallacis</i>	10	Veganic Special Sauce.....	36
BioSafe Disease Control - Concentrate & RTU.....	27	Mite Predator - <i>Phytoseiulus persimilis</i>	8	Whitefly Parasite - <i>Delphastus catalinae</i>	7
BiteBlocker® Herbal Repellents.....	21	Molt-X™.....	24	Whitefly Parasite - <i>Encarsia formosa</i>	7
Biting Fly Trap.....	30	Monterey 70% Neem Oil.....	23	Whitefly Parasite - <i>Eretmocerus eremicus</i>	7
Blue Sticky Strips.....	15	Monterey Ant Control.....	42	Yellow Sticky Trap Ribbon.....	13
BONIDE® Mosquito Beater Granules.....	20	Monterey Garden Insect Spray Concentrate.....	24	Yellow Stiky™ Tape.....	13
BONIDE® Mouse Magic Mouse Repellent.....	40	Monterey Nematode Control.....	25		
BONIDE® Neem Oil RTU & Concentrate.....	23	Monterey Take Down Spray.....	23		
BONIDE® Repells-All® Animal Repellent.....	40	Mosquito Barrier®.....	20		
BotaniGard® ES & 22WP <i>Beauveria bassiana</i>	22	Mosquito Control - <i>Bacillus thuringiensis var. israelensis</i> (<i>Bti</i>).....	20		
Bug Bam!® Wristbands, Camp Grids & Pet Tags.....	21	Moth Egg Parasites - <i>Trichogramma sp.</i>	10		
Bumblebee Hives.....	4	Mycotrol® ESO.....	22		
Chase™ Granular Mole & Gopher Repellent.....	39	Mycotrol® WPO.....	22		
Chase™ Liquid Mole & Gopher Repellent.....	39	Nite Guard Repellent Tape.....	39		
Chig-R-Blok.....	21	Nitron Formula A-35 With Micro-Nutrients.....	36		
ClimbUp®.....	41	Nitron's Humic Acid.....	36		
Coco Coir Brick.....	34	Orange Guard - Natural Insect Spray.....	42		
Debug® Turbo.....	25	Organic JMS Stylet-Oil.....	23		
Diatomaceous Earth – Food Grade.....	19 & 43	OxiDate® 2.0.....	27		
Electronic Flea Trap.....	19	Perma-Guard Crawling Insect Control.....	19 & 42		
EM•1® Microbial Inoculant.....	31	Pest Wizard Blue-Yellow Card Trap.....	15		
EM•1® Rice Bran Bokashi Kit.....	38	Pest Wizard Mini Yellow Sticky Trap.....	14		
Essentria™ G Granular Insecticide.....	43	Purple Scale Predator - <i>Rhyzobius lophanthae</i>	12		
First Response Bed Bug Monitor.....	41	PyGanic Crop Protection EC 1.4.....	18 & 24		
Flea 'n Tick B Gone™.....	19				

ASK THE EXPERTS

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.

AUTO SHIP PROGRAM

We can automatically ship any product on a regular schedule so you won't run out. Popular auto ship products include: Fly Eliminators, Beneficial Nematodes, Green Lacewings, Ladybugs, horse sprays, fertilizers, pet supplies & many more!

PAYMENT OPTIONS

Credit Cards: ARBICO accepts all major credit cards.

PayPal

Mail Checks or Money Orders To:

ARBICO Organics
P.O. Box 8910
Tucson, AZ 85738

We do not accept cash via mail.

JOIN OUR ONLINE COMMUNITY

Send your questions to Dr. Buglady™. She will respond to you right away with solutions for your situation!

Email Questions to: drbuglady@arbico.com

CUSTOMER SERVICE

All phone calls answered by a live person during regular business hours: Mon. through Fri., 8 am-5 pm & Sat. 8 am-1 pm (Arizona Time Zone) • Se habla Español

Toll Free: 800-827-2847

International calls: 520-825-9785

Fax: 520-825-2038

Satisfaction Guarantee

ARBICO Organics guarantees live beneficial insects. Should your insects perish while en route, we will gladly re-send you another order. We want you to be completely satisfied with the products you order. If for any reason you are not satisfied with your purchase, you can return the item(s) to us within 30 days. Our Customer Care personnel will be happy to assist you with your return.

CALL US AT 800-827-2847

Critical Information For Certified Organic Growers:

Please be aware that the certified status of a product can change at any time without notification from the manufacturer or OMRI. Although we make every attempt to assure that the status of the products listed as certified organic are current and up-to-date, when purchasing a product we advise you to protect your certification by checking with your certifying agency that it is acceptable or by going online to OMRI at www.omri.org.



Rick & Sheri Frey, Founders, ARBICO Organics™

Visit Our Retail Store!



10831 N. Mavinee Dr., Ste. 185
Oro Valley, AZ 85737-9531
800-827-2847

Please call for product availability.

Store Hours:

Monday - Friday: 8:00 AM - 5:00 PM

Saturday: 8:00 AM - 1:00 PM

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ARIZONA**

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