

ARBICO *organics*™

Providing Organic Solutions For Growers Since 1979

Summer Catalog 2017

Natural Products For Your Organic Garden, Farm and Livestock!



- Beneficial Insects
- Beneficial Nematodes
- Biorational & Botanical Insecticides
- Disease Control
- Fly Control

- Mosquito Control
- Mycorrhizae & Soil Amendments
- Pest Insect Traps & Lures
- Predatory Mites & Parasites
- Weed Control



Top 5 Products For Summer Pests!



Fly Eliminators

Fly Control

#1 – Fly Eliminators™ – Pages 28-29

ARBICO Organics™ Solar Fly Trap – Page 31

Biting Fly Trap – Page 31

ARBICO Organics™ Holistic Fly Defense – Page 31



Green Lacewings

Aphid, Whitefly & Mite Control

#1 – Green Lacewings – Page 3

Assassin Bugs – Page 4

Encarsia formosa – Page 5

Mite Predators – Pages 6-8



Mosquito Bits

Mosquito Control

#1 – Quick Kill Mosquito Bits® – Page 33

AQUABAC® – Page 33

Mosquito Barrier® – Page 34

BiteBlocker® Herbal Repellents – Page 34

Chig-R-Blok – Page 34



Orange Guard

Crawling Insect Control

#1 – Orange Guard® Home Pest Control – Page 50

Perma-Guard™ Crawling Insect Control – Page 51

Essentria™ G Granular Insecticide – Page 51

Monterey Ant Control – Page 50

Terro® Ant Baits – Page 52



Semaspore Bait

Grasshopper Control

#1 – *Nosema locustae* products – Page 20

Semaspore Bait™ – Page 20

Nolo Bait – Page 20

GENERALISTS

Ladybugs - *Hippodamia convergens*

Ladybugs Consume A Vast Quantity Of Soft-Bodied Insects.

TARGET: Aphids, chinch bugs, asparagus beetle larvae, thrips, alfalfa weevil larvae, bean thrips, grape root worm, Colorado potato beetle larvae, whiteflies 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

Overnight Shipping Required

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



Hippodamia convergens

Praying Mantids - *Tenodera aridifolia*

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

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

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

SUGGESTED USE (Depending upon level of infestation): Begin releases

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

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

1121000	1 Egg Case w/o Twigs	(.25 lb.)	\$4.95
1121001	3 Egg Cases w/o Twigs	(.25 lb.)	\$13.48
1121101	10 Egg Cases w/o Twigs	(1 lb.)	\$41.15

Shipped US Mail



Tenodera aridifolia

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

FREE SHIPPING

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
1110100	≈5,000 Eggs on Cards	(1 lb.)	\$28.50
1110102	≈10,000 Eggs on Cards	(1 lb.)	\$45.00
1110105	≈25,000 Eggs on Cards	(1 lb.)	\$90.00
1110005	Larval Frames ≈400 Larvae	(7 lbs.)	\$25.00**
1110006	≈100 Adults	(3 lbs.)	\$44.00**
1110007	≈500 Adults	(7 lbs.)	\$170.00**
1110010	≈1,000 Larvae in Bottle	(7 lbs.)	\$25.00**

Green Lacewing Eggs Programs:

1110002	≈1,000 Eggs/week for min. 3 shipments	(.75 lb.)	\$15.60
	(Price Per Shipment)		
1110003	≈5,000 Eggs/week for min. 3 shipments	(.75 lb.)	\$24.30
	(Price Per Shipment)		
1110023	≈10,000 Eggs/week for min. 3 shipments	(.75 lb.)	\$33.75
	(Price Per Shipment)		

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



Chrysoperla rufilabris, *Chrysoperla sp.*

BENEFICIAL INSECTS & MITES

Assassin Bug - *Zelus renardii*

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

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



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

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

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

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

Minute Pirate Bug - *Orius insidiosus*

Excellent General Predator In Field Crops & Greenhouses.

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

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



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

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

Overnight Shipping Required

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

SPECIALISTS - APHID CONTROL

Aphid Predator - *Aphidoletes aphidimyza*

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



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

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

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

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

1101001 ≈1,000 Pupae (2 lbs.) **\$80.00**
1101003 ≈3,000 Pupae (5 lbs.) **\$207.00**
1101002 4x250 Pupae in Blister Packs (4 lbs.) **\$41.30**

Overnight Shipping Required

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

Aphid Parasite - *Aphidius colemani*

Exceptional In Greenhouses Producing Vegetables & Ornamentals.



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

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

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

Temperature: 64-75°F **Relative Humidity:** High ≈80%
1101302 ≈500 Mummies (2 lbs.) **\$43.00**
1101301 ≈1,000 Mummies (2 lbs.) **\$54.00**
1101303 ≈5,000 Mummies (4 lbs.) **\$189.00**
1101304 ≈10,000 Mummies (4 lbs.) **\$340.00**

Overnight Shipping Required

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

SPECIALISTS - APHID CONTROL

Aphid Parasite - *Aphidius ervi*

This Non-Stinging Parasitic Wasp Attacks Larger Aphid Species.

Image Citation: Alex Wild

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

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

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

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

1001001 ~250 Mummies (2 lbs.) **\$80.00**

Overnight Shipping Required

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



Aphidius ervi

Aphid Parasite - *Aphelinus abdominalis*

These Ravenous Predators Will Eat & Parasitize Aphid Nymphs!

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

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

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

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

1101101 ~250 Mummies (2 lbs.) **\$80.00**

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



Encarsia formosa

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.) **\$94.95**

Overnight Shipping Required

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



Eretmocerus eremicus

BENEFICIAL INSECTS & MITES

Whitefly Parasite - *Delphastus catalinae*

These Tiny Brown Beetles Consume Several Hundred Pests Daily!

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

DESCRIPTION: Females lay ~3-4 eggs daily and adults live for approximately one month. Adult beetles capture prey with 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



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.

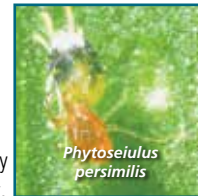
SUGGESTED USE (Depending upon level of infestation): 500-1,000/acre every 2 weeks, 2-3 releases. Use indoors and outdoors. Weekly release programs available. Please call.

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



BENEFICIAL MITES

Mite Predator - *Amblyseius andersoni*

Great For Pre-Emergent Control Of Pest Mite Infestations!

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

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

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

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

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

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%

1101312	1 Tube (~25,000)	(3 lbs.)	\$68.20
1101311	1 Bag (~125,000)	(3 lbs.)	\$270.00
1101313	500 Sachets w/Hooks	(4 lbs.)	\$290.50
1101310	500 Gemini Sachets (~25,000)	(4 lbs.)	\$296.00
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



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.)	\$65.50
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



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



Spider Mite Destroyer - *Feltiella acarisuga*

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

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

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

Overnight Shipping Required

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



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. Persimilis* 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 tab has been inoculated with ~2,400 eggs per tab.

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

Temperature: Minimum 50°F

Relative Humidity: Moderate

SKU #	Amount & Weight	Price
<i>Trichogramma pretiosum</i> - row crops, vineyards		
1131021	3 Tabs (1 lb.)	\$7.00
1131003	6 Tabs (1 lb.)	\$12.00
1131022	1 Card (30 Tabs) (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 Tabs (1 lb.)	\$7.00
1131903	6 Tabs (1 lb.)	\$12.00
1131911	1 Card (30 Tabs) (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 Tabs (1 lb.)	\$7.00
1129003	6 Tabs (1 lb.)	\$12.00
1129010	1 Card (30 Tabs) (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 Tabs (1 lb.)	\$7.00
1130003	6 Tabs (1 lb.)	\$12.00
1130030	1 Card (30 Tabs) (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

SPECIALISTS

Mexican Bean Beetle Parasite - *Pediobius foveolatus*

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

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

DESCRIPTION: The Mexican bean beetle is a major insect pest of beans. The Mexican bean beetle adults and larvae will eat the undersides of the bean leaves causing lacing of the foliage. The high levels of damage to the leaves can significantly reduce your yearly bean yields. *Pediobius foveolatus* is a small beneficial wasp that will parasitize 2nd through 4th instar larvae of the Mexican bean beetle (and the same stages of squash beetle larvae, a closely related species). Shipped to you inside their host; 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.)	\$38.50
1152205	~100,000	(5 lbs.)	\$73.70
1152206	~250,000	(7 lbs.)	\$119.95
1152201	200 Sachets	(4 lbs.)	\$79.00
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.)	\$990.00

Overnight Shipping Required

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



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

Voracious Adults & Larvae Feed On Scale & Other Pests!

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



Mealybug Parasitoid - *Anagyrus pseudococci*

Stop Destructive Mealy Bugs With This Beneficial Parasitoid.

Image Citation: Crerob Hermosillo, Mexico

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

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

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

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

1132060	≈100 Mummies	(3 lbs.)	\$32.00
1132061	≈200 Mummies	(3 lbs.)	\$60.00
1132062	≈500 Mummies	(4 lbs.)	\$137.50

Overnight Shipping Required

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



Red Scale Parasite - *Aphytis melinus*

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

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

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

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

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

1122001	≈10,000	(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



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

Bumblebee Hives

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

TARGET: Gardens, hoopouses 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 C

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

1530003	Class C Hive	(10 lbs.)	\$109.97
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Bumblebee Hive - Class B

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

1530002	Class B Hive	(10 lbs.)	\$169.00
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Bumblebee Hive - Class A

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

1530001	Class A Hive	(10 lbs.)	\$249.95
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Requires NEXT DAY Shipping. Some restrictions apply west of the Rockies. Cannot be shipped to the following states: HI, OR, PR, VI, GU, AS, PW



SMALL HIVE BEETLE CONTROL

Heterorhabditis indica

Protect Your Hives From Small Hive Beetle.

Image Citation: Jessica Louque, Smithers Viscient

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

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

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

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

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

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



ARBICO Organics™ Good Bug Power Meal

Beneficial Insect Attractant & Food.

TARGET: Attract and sustain beneficial insects and butterflies.

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

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

1133001	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: Help keep your beneficial insects from flying away.

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

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

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



Monterey Lady Bug Attractant

Attract Beautiful & Beneficial Ladybugs!

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

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

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

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



When & How Often Should Beneficial Nematodes Be Applied?

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

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

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

How Do I Apply Beneficial Nematodes?

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

1. Simply mix **ready-to-use Beneficial Nematodes** with water.
2. Apply pre-dawn or at dusk with a hose end sprayer (**See Chameleon Sprayer on page 19**), backpack sprayer, pump sprayer or watering can. Lightly water again after application.
3. Keep area moist for at least 2 weeks.

When Will I See Results?

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

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

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

Easily Apply Beneficial Nematodes With The Chameleon Adaptable Hose End Sprayer. See Page 19 or 46.

NEMATODE VARIETY GUIDE – Choose Variety By Pest

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

For information about termite control, please call.



Beneficial Nematodes

▲ = NemaSeek™ *Heterorhabditis bacteriophora* (Hb)

■ = NemAttack™ *Steinernema feltiae* (Sf)

● = NemAttack™ *Steinernema carpocapsae* (Sc)

SINGLE SPECIES		
SKU	Size	Price
▲ NemaSeek <i>Heterorhabditis bacteriophora</i>		
1220300	≈5 million	\$36.00
1220301	≈10 million	\$42.95
1220302	≈50 million	\$72.00
1221703	≈250 million	\$198.00
1221706	≈500 million	\$270.00
■ NemAttack <i>Steinernema feltiae</i>		
1220309	≈5 million	\$36.00
1220310	≈10 million	\$42.95
1220311	≈50 million	\$72.00
1221701	≈250 million	\$198.00
1221704	≈500 million	\$270.00
● NemAttack <i>Steinernema carpocapsae</i>		
1220319	≈5 million	\$36.00
1220320	≈10 million	\$42.95
1220321	≈50 million	\$72.00
1221702	≈250 million	\$198.00
1221705	≈500 million	\$270.00

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

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

SIZE & COVERAGE CHART

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



OMRI Listed Beneficial Nematodes

▲ = NemaSeek™ *Heterorhabditis bacteriophora* (Hb)

■ = NemAttack™ *Steinernema feltiae* (Sf)

● = NemAttack™ *Steinernema carpocapsae* (Sc)



SIZE & COVERAGE CHART

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

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

Hb = *Heterorhabditis bacteriophora*

Sf = *Steinernema feltiae*

Sc = *Steinernema carpocapsae*

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

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

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

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

PEST INSECT TRAPS

Yellow Sticky Trap Ribbon

Positively Identify Your Pests!

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

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

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

- 1253201** Yellow Sticky Trap Ribbon - 100 ft. x 6" Roll (3 lbs.) **\$29.50**
1253202 Yellow Sticky Trap Ribbon - (2 ea.) 100 ft. x 6" Roll (6 lbs.) **\$57.50**
1253203 Yellow Sticky Trap Ribbon - (3 ea.) 100 ft. x 6" Roll (10 lbs.) **\$80.25**



Yellow Stiky™ Tape

Longer Length Tape To Cover Even More Area.

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

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

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

- 1259610** 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**

*Larger quantities available.



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.



Olson Garden Guard Yellow Stiky Ribbon



This Ribbon Is Just Right For Encompassing Small Gardens

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

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

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

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



Stiky™ Strips Yellow Insect Traps

These Basic Traps Come With A Handy Wire Hanger.

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

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

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

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



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

Stiky™ Plant Stakes

Knock Out Those Pesky Little Fliers Around Your Plants!

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

DESCRIPTION: Provide 24-hour protection from flying insects with these simple to use and effective sticky 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 trap into your pots or bedding. These are coated with glue on one side; insert trap into soil with the adhesive side facing the plant. This will keep the dead insects out of sight.

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

1254320	Stiky Plant Stakes - 10 pack	(.5 lb.)	\$3.95
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ARBICO Organics™ Yellow Insect Traps



Monitoring + Trapping = Effective Pest Control

TARGET: Use against aphids, bean beetles, California Laurel aphids, flea beetles, fungus gnats, Greenhouse Whiteflies, leafminers, psyllids, shore flies, Silverleaf Whiteflies, Sweet Potato Whiteflies and more.

DESCRIPTION: ARBICO Organics Yellow Insect Traps are 5" x 7" gridded, 2-sided adhesive traps for a wide range of crawling and flying insect pests.

Insects are drawn in by the bright color and are caught on the glue. Once they are trapped, the gridded surface makes it easy to count just how many have landed. Having the insects immobilized on the trap also makes it easy to identify them. There is a very low risk to beneficials, but some may become caught by accident.

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

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

1254501	ARBICO Organics Yellow Insect Traps - 5 Pack	(.2 lb.)	\$4.25
1254502	ARBICO Organics Yellow Insect Traps - 10 Pack	(.4 lb.)	\$8.00
1254503	ARBICO Organics Yellow Insect Traps - 25 Pack	(1 lb.)	\$18.75
1254504	ARBICO Organics Yellow Insect Traps - 50 Pack	(2 lbs.)	\$35.00
1254510	ARBICO Organics Yellow Insect Traps - 100 Pack	(4 lbs.)	\$65.00



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: Whiteflies, aphids, leafhoppers, fungus gnats, spittlebugs, flies and more.

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

Thrips/Leafminer Blue Sticky Traps:

TARGET: Thrips, leafminers.

SUGGESTED USE: Greenhouses, orchards, row crops, barns and more. Hang or attach to stake 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 INSECT TRAPS

Blue Sticky Strips

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

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

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

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

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

Pest Wizard Blue-Yellow Card Trap

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

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

Adhesive traps do not require lures or baits. Enhance attraction with essential oils, such as Melissa, Lemon or Cinnamon Oil (available online).

Tanglefoot® Tangle-Trap® Sticky Coating



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

TARGET: Ants, flies, beetles and other insects.

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

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

1266020	Sticky Coating - 8 oz. Brush-On Can	(.75 lb.)	\$10.79
1266025	Sticky Coating - Case of 8 oz. Cans/12 Ct.	(6.5 lbs.)	\$105.50



Stiky Stuff Sticky Coating

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

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

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

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

1259600	Stiky Stuff - 8 oz.	(.6 lb.)	\$14.57
1259601	Stiky Stuff - 8 oz. - Pack of 2	(1.2 lbs.)	\$27.00
1259602	Stiky Stuff - 8 oz. - Pack of 3	(2 lbs.)	\$40.50
1259603	Stiky Stuff - 8 oz. - Pack of 4	(2.5 lbs.)	\$52.00



Sluggo®

Wipes Out Slugs & Snails!

TARGET: Snails and slugs.

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

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

1271109	Sluggo 2.5 lb. Jug	(3 lbs.)	\$15.75
1271104	Sluggo 40 lb. Bag	(41 lbs.)	\$138.95

Larger quantities available.



BONIDE® Slug Magic

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

TARGET: Slugs.

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

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

1271101	Slug Magic - 1 lb.	(2 lbs.)	\$13.75
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Cannot be shipped to the following states: DC, PR



DiPel® DF Dry Flowable

Bacillus thuringiensis var. kurstaki

TARGET: Caterpillar larvae.

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

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

1207005	DiPel DF - 1 lb.	(2 lbs.)	\$24.75
1207004	DiPel DF - 5 lb.	(6 lbs.)	\$119.50

Ships Via Ground Only

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



Slug Saloon

This Will Be A Slug's Last Drink!

TARGET: Slugs.

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

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

1272003	Slug Saloon Trap w/One Month Supply Bait	(1 lb.)	\$7.45
1272012	Slug Saloon Trap Pack of 2 & 4 Baits	(3 lbs.)	\$35.00
1272013	Slug Saloon Trap Pack of 5 & 10 Baits	(6 lbs.)	\$80.00
1272014	Slug Saloon Trap Pack of 10 & 20 Baits	(12 lbs.)	\$153.00
1272009	Slug Saloon Bait Refill	(1 lb.)	\$7.75
1272010	Slug Saloon Bait Refill-Pack of 5	(6 lbs.)	\$36.25
1272011	Slug Saloon Bait Refill-Pack of 10	(12 lbs.)	\$67.50



Monterey All Natural Snail & Slug Spray RTU

Stops Slugs & Snails From Damaging Your Garden!

TARGET: Snails and slugs.

DESCRIPTION: Made from a blend of rosemary, sesame, peppermint, thyme, cinnamon and garlic this easy-to-use spray can be used to control on contact or can be used preventively as a repellent. It can be used in most seasons and can be applied until day of harvest.

SUGGESTED USE: Apply to fruits, vegetables, citrus and ornamentals directly to pests or directly to plants that they are feeding on. For best results, apply at onset of infestation, in the evening and use repeatedly as needed.

1271120	Quart RTU	(3 lbs.)	\$11.50
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Cannot be shipped to the following states: AK, AL, AR, CO, DC, DE, IA, ID, IN, KY, LA, MD, ME, MI, MS, MT, NC, ND, NH, NM, NV, OH



Snailer

One Way In & No Way Out For Snails!

TARGET: Snails, slugs, earwigs & sowbugs.

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

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

1272001	Snailer Trap w/One Month Supply Bait	(1 lb.)	\$11.25
1272004	Snailer Trap Pack of 2 & 4 Baits	(3 lbs.)	\$42.55
1272005	Snailer Trap Pack of 5 & 10 Baits	(6 lbs.)	\$99.00
1272006	Snailer Trap Pack of 10 & 20 Baits	(12 lbs.)	\$190.00
1272002	Snailer Bait Refill	(1 lb.)	\$7.75
1272007	Snailer Bait Refill-Pack of 5	(6 lbs.)	\$36.25
1272008	Snailer Bait Refill-Pack of 10	(12 lbs.)	\$67.50



CATERPILLAR CONTROL



Gypsy Moth Caterpillar

Moth Egg Parasites - *Trichogramma spp.*

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

Monterey B.t.

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

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

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

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

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

Cannot be shipped to the following states: ND, WY



BONIDE® Thuricide - Liquid Concentrate

Bacillus thuringiensis var. kurstaki

TARGET: Control of caterpillars.

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

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

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

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



Monterey Garden Insect Spray



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

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

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

SUGGESTED USE:

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

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

1257900	Monterey Garden Insect Spray CONC.- 1 Pint	(2 lbs.)	\$16.99
1257905	Monterey Garden Insect Spray CONC.- 1 Quart	(2.6 lbs.)	\$27.00
1257910	Monterey Garden Insect Spray CONC.- 1 Gal.	(9.26 lbs.)	\$90.00

Cannot be shipped to the following states: DC



BIOLOGICAL GRUB CONTROL

NemaSeek™ Hb Beneficial Nematodes

Beneficial Nematodes are one of nature's most powerful weapons available for ending Japanese Beetle infestations. Along with parasitizing the beetles in their larval, underground damaging stages, they also parasitize the larval states of other pest grubs, 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 12-13 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 (See page 46). 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: AL, AR, CT, DE, GA, IA, IL, IN, KS, KY, MD, ME, MI, MN, MO, MS, NC, NE, NH, NJ, NY, OH, OK, PA, RI, SC, SD, TN, TX, VA, VT, WI, WV. If you are unsure if Japanese Beetles have invaded your county, please contact your County Extension Agent to find out.



Milky Spore Granular

A New Formulation for Use In A Drop Spreader

TARGET: Japanese beetle grubs.

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

SUGGESTED USE: For best results, should be applied with a Drop Spreader in the spring, summer and fall for 2 consecutive years. This will allow for the Milky Spore to build up in your soil. After that, the spores will work on their own for several years. After the 6th application, control can last up to 10 years. 1 lb. of material will cover 350 sq. ft. and 20 lbs. bag will cover 7,000 sq. ft.

1216070	Milky Spore Granular - 20 lb. Bag	(22 lbs.)	\$45.00
1216071	Milky Spore Granular - 20 lb. Bag, Pallet of 21	(520 lbs.)	\$720.00
1216072	Milky Spore Granular - 20 lb. Bag, Pallet of 42	(940 lbs.)	\$1350.00



Chameleon Adaptable Hose End Sprayer

Perfect Application!

DESCRIPTION: Multipurpose sprayer that 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
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GRASSHOPPER CONTROL



Semaspoore Bait™

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

TARGET: Grasshoppers.

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

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

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

*Call for freight quote.

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



Nolo Bait

Put An End To Destructive Grasshoppers & Crickets!

TARGET: Grasshoppers and mormon crickets.

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

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

1160000	1 lb. Bag	(2 lbs.)	\$20.60
1160001	5 lb. Bag	(6 lbs.)	\$51.75
1160002	10 lb. Bag	(11 lbs.)	\$68.00
1160003	25 lb. Bag	(26 lbs.)	\$118.00

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



PyGanic® Gardening

Rapid Knockdown & Kill For Outdoor Pests In Your Garden.

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

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

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

1288710	PyGanic Gardening - 8 oz.	(1 lb.)	\$20.50
1288720	PyGanic Gardening - 32 oz.	(3 lbs.)	\$49.50
1288730	PyGanic Gardening - 1 gal.	(9 lbs.)	\$183.50



Lures By Pest

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

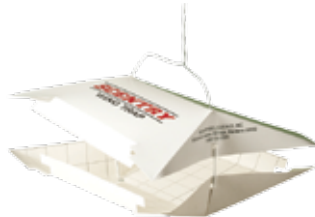
Common Name	Scientific Name	Wing/Delta/LPD/GM	Common Name	Scientific Name	Wing/Delta/LPD/GM
Almond Moth	<i>Cadra cautella</i>	W, D, LPD	Lesser Peachtree Borer	<i>Synanthedon pictipes</i>	W, LPD
Armyworm	<i>Pseudaletia unipuncta</i>	W, LPD	Nantucket Pine Tip Moth	<i>Rhyacionia frustana</i>	D
Beet Armyworm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

Wing Trap

You'll Get Options & Economy With This Trap!

TARGET: A wide variety of insects/ Lepidopteran pests.

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



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

Large Plastic Delta Trap

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

TARGET: A wide variety of insects/ Lepidopteran pests.

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



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

Delta Trap

Catch Those Pests With Ease!

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

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



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

Moth Pests Disappear With This "Milk Carton" Trap!

TARGET: Adult male gypsy moths.

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



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

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.)	CALL
1274110	30 Gallon Drum*	(300 lbs.)	CALL
1274111	275 Gallon Tote*	(2,752 lbs.)	CALL

*Call for freight quote.

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



SuffOil-X®



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

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

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

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

1332805	2.5 Gallons	(22 lbs.)	\$62.00
1332806	Case of 2 ct./2.5 Gals.	(42 lbs.)	\$112.00

Call for larger sizes.



BioCare® Codling Moth Trap

Detect & Trap Codling Moths.

TARGET: Codling Moths.

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

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

1240301	Codling Moth Trap	(.5 lb.)	\$8.25
1240297	Codling Moth Trap - 3 Pack	(1.25 lbs.)	\$27.00
1240298	Codling Moth Trap - 6 Pack	(2.25 lb.)	\$51.30
1240299	Codling Moth Trap - 12 Pack	(4.5 lb.)	\$92.50



Monterey Fruit Tree Spray Plus



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

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

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

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

1257930	Fruit Tree Spray Plus - Pint	(1.5 lbs.)	\$17.00
1257932	Fruit Tree Spray Plus - Quart	(2.5 lbs.)	\$31.50
1257931	Fruit Tree Spray Plus - Pint RTS	(1.5 lbs.)	\$18.95



Mycotrol® WPO

A New Formulation For A Reliable Favorite!

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

DESCRIPTION: Mycotrol WPO is a 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.)	\$98.00
1332795	Mycotrol WPO - 1 lb. (Case of 12)	(24 lbs.)	\$1,070.00



Mycotrol® ESO

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

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

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

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

1332781	1 Quart	(3 lbs.)	\$96.50
1332782	1 Gallon	(10 lbs.)	\$349.00

*Case sizes available.



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

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

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

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

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

Application Rates of BotaniGard ES

- For whiteflies and aphids, use about .5-1 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 whiteflies 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.)	\$84.00
1332799	1 Gallon	(10 lbs.)	\$260.00

BotaniGard 22WP

1332800	1 lb. Powder	(2 lbs.)	\$88.00
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Case sizes available.

Shipping Restrictions: Cannot ship via US Mail.



Adult Tiger Swallowtail (Lepidoptera)

SoluNeem®



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

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

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

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

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



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



BONIDE® Insecticidal Soap RTU

Great For Treating Insect Pests On Houseplants, Vegetables, Flowers & Fruits.

TARGET: Adelgids (wooly aphids), lacebugs, aphids, mealybugs, mites, spider mites, grasshoppers, leafhoppers, scale insects, plant bugs, sawfly larvae (pear and rose slugs), psyllids, tent caterpillars, thrips, earwigs and whiteflies.

DESCRIPTION: This easy-to-use, indoor-outdoor insecticide uses Potassium Fatty acids (derived from plants) to kill insect pests on contact and contains no flammable solvents or animal fatty acids. It will not persist in the environment, so you can use it regularly without worry. Application can be made to edible crops up to and including the day of harvest. This product should not be used on sweet peas, nasturtiums or delicate ferns.

SUGGESTED USE: Use indoors, outdoors and in greenhouses. Spray must come into contact with insect pests to achieve control. Thoroughly spray pests to wetting on all plant parts, including undersides of leaves. Repeat treatment weekly or bi-weekly, if needed. Avoid spraying during full sun.

1247602	BONIDE Insecticidal Soap RTU - 32 oz.	(2.75 lbs.)	\$10.25
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Cannot be shipped to the following states: DC, HI, PR



AzaGuard®



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

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

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

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

1222205	AzaGuard - 32 oz. - Case of 4	(11 lbs.)	\$530.00
1222207	AzaGuard - 1 gal. - Case of 2	(20 lbs.)	\$1,000.00



AzaMax™



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

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

DESCRIPTION: A botanical insecticide, extracted from seeds of the neem tree, *Azadirachta indica*. It provides broad spectrum insect, mite and root knot nematode control by repellence, reduced feeding and interference with the molting process which prevents development and reproduction. 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 Tbsps. (1 oz.) of Debug Turbo with 32 oz. of water in spray container.
- Spray mixture on leaves, stems, and underside of leaves making sure to completely saturate the plant.
- Apply in early morning or late evening with temperatures less than 95°F.
- For best results apply weekly; do not water leaves for 24 hours after application.

Lawn Care

- Shake container of Debug Turbo well before use.
- Add 1-3 oz. of Debug Turbo in a 2 gal. of water. Apply with the Chameleon Adaptable Hose End Sprayer. (See page 19).
- 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.)	\$64.25
1450505	Debug Turbo - Case of 10 Quarts	(26 lbs.)	\$556.00
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



Whitefly Infestation

Green Cleaner

An Industry Favorite Because It Works So Well!

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

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

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

1458050	2 oz. - Makes up to 4 Gallons	(1 lb.)	\$17.99
1458051	4 oz. - Makes up to 8 Gallons	(1 lb.)	\$27.99
1458052	8 oz. - Makes up to 16 Gallons	(1 lb.)	\$54.00

*Larger sizes available.

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



Monterey Garden Insect Spray



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

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

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

SUGGESTED USE:

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

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

1257900	Monterey Garden Insect Spray CONC. - 1 Pint	(2 lbs.)	\$16.99
1257905	Monterey Garden Insect Spray CONC. - 1 Quart	(2.6 lbs.)	\$27.00
1257910	Monterey Garden Insect Spray CONC. - 1 Gal.	(9.26 lbs.)	\$90.00

Cannot be shipped to the following states: DC



SNS 209 All Natural Systemic Pest Control Concentrate



This NOP Compliant Insecticide Works From The Inside Out.

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

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

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

1459100	1 Pint	(1.75 lbs.)	\$24.00
1459102	1 Gallon	(9.5 lbs.)	\$110.00



Surround® WP



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

TARGET: Apple maggots, codling moths, glassy-winged sharpshooter, Japanese beetles, leafhoppers, 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.)	\$56.25
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PyGanic® Gardening



Rapid Knockdown & Kill For Outdoor Pests In Your Garden.

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

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

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

1288710	PyGanic Gardening - 8 oz.	(1 lb.)	\$20.50
1288720	PyGanic Gardening - 32 oz.	(3 lbs.)	\$49.50
1288730	PyGanic Gardening - 1 gal.	(9 lbs.)	\$183.50



PyGanic® Specialty



New Label – Same Terrific Product As PyGanic 5.0!

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

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

SUGGESTED USE: For indoor use in greenhouses only. For outdoor use in and around nurseries, on field and orchard crops. Also for use on production animals in barns, dairies, milking parlors, milking rooms and poultry houses.

1288770	PyGanic Specialty - 32 oz.	(3 lbs.)	\$144.00
1288780	PyGanic Specialty - 1 gal.	(9 lbs.)	\$530.00



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 tps. of concentrate with 1 qt. water or 1 fl. oz. of concentrate with 3 qts. of water. **2% Solution:** Mix 4 tps. of concentrate with 1 qt. of water or 2 fl. oz. with 3 qts. of water. Shake or stir frequently during use.

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

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



Azera® Gardening



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

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

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

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

1288740	Azera Gardening - 8 oz.	(1 lb.)	\$37.25
1288750	Azera Gardening - 32 oz.	(3 lbs.)	\$91.25
1288760	Azera Gardening - 1 gal.	(10 lbs.)	\$341.00



FLY ELIMINATORS



WHAT ARE FLY ELIMINATORS?

The Sensible Alternative To Pesticides

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



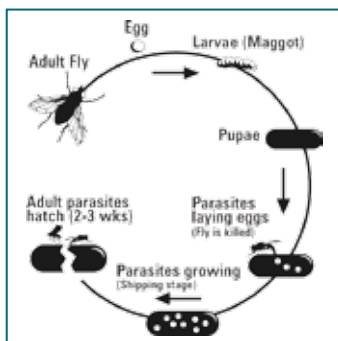
Adult Fly Eliminator emerging from fly pupa.

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

HOW DO FLY ELIMINATORS WORK?

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

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.



Life cycle of the fly parasite.

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

Philadelphia Park Recommends ARBICO's Fly Eliminators

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



— Roy Smith, Former Track Manager of Philadelphia Park

WHO USES FLY ELIMINATORS?

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

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

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



HOW DO I USE FLY ELIMINATORS?

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

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



Fly Eliminators and wood shavings in packaging.

Use Your Fly Eliminators the RIGHT Way:

RIGHT Time

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

RIGHT Place

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

RIGHT Amount

- ☒ The more Fly Eliminators, the fewer the flies

RIGHT Schedule

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

SPECIAL PRICING

HOW TO ORDER:

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

Only \$19.95

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

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

Order Your Fly Control Program Today!

Churchill Downs Chooses ARBICO Organics

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

— Butch Lehr, Former Track Manager of Churchill Downs



CHURCHILL DOWNS

Del Mar Thoroughbred Club Relies On ARBICO Organics

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

— Joe Harper, Chief Executive Officer of Del Mar



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

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

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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

BIOLOGICAL CONTROL

Sc Beneficial Nematodes



Add Beneficial Nematodes For Ultimate Fly Control!

TARGET: Fly maggots and other subterranean pests.

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



Fly Maggots

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

1220319	NemAttack Sc Beneficial Nematodes - ~5 million	\$36.00
1220320	NemAttack Sc Beneficial Nematodes - ~10 million	\$42.95
1220321	NemAttack Sc Beneficial Nematodes - ~50 million	\$72.00
1221702	NemAttack Sc Beneficial Nematodes - ~250 million	\$198.00
1221705	NemAttack Sc Beneficial Nematodes - ~500 million	\$270.00

* See page 13 for free shipping details.

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

Diatomaceous Earth – Food Grade



Use This Food-Grade Product To Keep Animal Feeds Flowing & Mildew-Free!

TARGET: For use as an anti-caking additive in animal feeds.

DESCRIPTION: Some feeds, like sweet feeds, contain substances that cause the particles to stick together. This can make feeding difficult and cause wastage. High humidity can also cause clumping, as well as mildew and mold. This product will coat each particle to prevent sticking and will absorb moisture to prevent mold and mildew. D.E. won't swell or absorb nutrients and has no long-lasting effect on animals.

SUGGESTED USE: D.E. should be mixed at a rate not to exceed 2% of the dry weight of the rations. In other words, when mixing 100 pounds of feed, replace 2 pounds of feed with the D.E.

Diatomaceous Earth is a food grade product but is not sold for ingestion by humans. It is not sold as an insecticide. D.E. should not be used in any manner other than as specified on the manufacturer's label.



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



(*Free Shipping)

*FREE SHIPPING on 50 lb. bag only; ships via Ground ONLY. Call for pallet pricing.

SCD Odor Away™



Remove Various Odors With Beneficial Bacteria!

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

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

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



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

Call for case pricing.

ADULT FLY TRAPS & REPELLENTS

Biting Fly Trap

No Poisons! No Baits! No Electricity!

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

DESCRIPTION: As discovered by Dr. D. E. Williams of the USDA, biting flies are attracted to sunlight as it shines through a particular type of fiberglass. A cylinder has been created of this fiberglass and coated with a clear sticky substance. They will be drawn in by the glass but unable to escape the stickiness. One trap can catch up to 5,000 flies! Each package contains the following: 1 fiberglass cylinder, 1 wooden stake, 2 brass fasteners, 2 giant paper clips, 1 sticky sleeve, 1 replacement sleeve (additional sleeves can be purchased as needed) and complete instructions. Weight - 1.5 lbs. Box size - 12 1/4 x 26 1/2 x 1 1/2 inches.



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

1256020	Biting Fly Trap - Pack of 1	(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

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



ARBICO Organics™ Solar Fly Trap

FREE SHIPPING

Captures Hordes Of Flies!

TARGET: Adult flies.

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

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

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

Volume Pricing!

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

Replacement part available online.

*FREE SHIPPING via ground or US Mail ONLY.

ARBICO Organics™ Holistic Fly Defense

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

TARGET: 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



FLEA & TICK CONTROL

Flea 'n Tick B Gone™

Fast Acting & 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



Perma-Guard™ Crawling Insect Control



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

TARGET: Any crawling or hopping pest insect.

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



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

1218250	Perma-Guard - 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



Beneficial Nematodes

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

See pages 12-13 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" x 5" capture pad holds up to 10,000 fleas. Attractive, durable, patented design.

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

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



Essentria™ G Granular Insecticide

A Granular That Handles A Handful Of Outdoor Pests!

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

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

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

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

Quick Kill Mosquito Bits®

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

TARGET: Mosquitoes and fungus gnats.

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

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

1211108	Quick Kill Mosquito Bits - 8 oz.	(1 lb.)	\$10.95
1211136	Quick Kill Mosquito Bits - 30 oz.	(3 lbs.)	\$17.80
1211139	Mosquito Bits & Dunks Combo Kit	(2 lbs.)	\$18.99



Mosquito Dunks®

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

TARGET: Mosquitoes.

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

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

1211101	Mosquito Dunks - 6 Pack	(1 lb.)	\$13.95
1211103	Mosquito Dunks - 20 Pack	(2 lbs.)	\$22.95
1211139	Mosquito Bits & Dunks Combo Kit	(2 lbs.)	\$18.99



AQUABAC® 200G Granular Bti Mosquito Control



Use This Bti Larvicide Wherever You Have Mosquitoes Breeding

TARGET: Larval stages of mosquitoes and black flies.

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

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

1211150 AQUABAC Granular Bti - 40 lb. - **Free Shipping*** **\$187.00**

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



BONIDE® Mosquito Beater WSP



Just Drop & Go For Mosquito Control!

TARGET: Mosquitoes, gnats & black flies.

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

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

1211315	BONIDE Mosquito Beater WSP - 24 Pouches	(.5 lb.)	\$12.49
1211320	BONIDE Mosquito Beater WSP - 80 Pouches	(1.25 lbs.)	\$28.69

This product cannot be shipped to the following states: DC



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

PERSONAL

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



PETS & FAMILY

Mosquito Eliminator™ Wristband



Microfiber Comfort With Real Repellent Power!

TARGET: Mosquitoes and other flying, biting insects.

DESCRIPTION: Using the power of Geraniol (a geranium oil extract), the Mosquito Eliminator Wristband effectively covers the scents of a human being that troublesome flying insects find so irresistible. Without these odors to zero in on, mosquitoes will not target the individual. This lovely smelling and super-effective oil is infused into the microfiber of these wristbands. Between this super-soft and breathable microfiber and the adjustable snaps, you will be hard pressed to find a more comfortable wristband. This re-sealable package comes with 5 one size fits all wristbands.

SUGGESTED USE: Simply place the Mosquito Eliminator Wristband on your wrist, leg, belt, or even stroller. Secure the wristband with the adjustable snaps for the perfect fit. Store in airtight bag when not in use



1211550 Mosquito Eliminator Wristband (5 pk.) **\$9.99**

Bug Button™ & Mosquito Eliminator™ Grid



Pin It Or Hang It Where You Need It Most!

TARGET: Mosquitoes and other flying, biting insects.

DESCRIPTION: The Bug Button and Mosquito Eliminator Grid are made by infusing botanical oils into plastic to create lightweight, waterproof insect repelling products that are DEET free and can be placed nearly anywhere. The Bug Button attaches to almost any type of fabric and is small enough (about 1 3/4" in diameter) to pin nearly anywhere. It is not harmful to animals, so you can even pin it on your dog's collar. The Mosquito Eliminator Grid is somewhat larger, at 2 1/2" in diameter, with a sturdy hook on one end. This enables you to hang it indoors or out wherever you need protection. Once you are done in a particular area, simply move the Mosquito Eliminator Grid to your new location.

SUGGESTED USE: Pin the Bug Button to clothing, hat, backpack, purse; attaches to almost any fabric. Hang the Mosquito Eliminator anywhere around you. Store both products in their airtight bags when not in use.



1211510	1 Bug Button	\$1.60
1211515	4 Bug Buttons	\$5.75
1211520	1 Mosquito Eliminator	\$1.60
1211520	4 Mosquito Eliminators	\$5.75

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.

Superband Premium



Just Slip It On And Make Bugs Go Away!

TARGET: Mosquitoes and other flying, biting insects.

DESCRIPTION: Take your insect control wherever you go with DEET free, waterproof and long lasting Superband Premium. These pleasantly aromatic bracelets work to keep mosquitoes and other biting insects away by masking the human scent we all carry with botanical oils. Without this scent as a target, insects will move on. Superband Premiums come in a re-sealable bag, which allows you re-use them for up to 250 hours. These one-size-fits-all bracelets slip easily onto a wrist or ankle and can be used by children above the age of 3 (with adult supervision). Comes in 4 colors: green, blue, yellow and red. In the sets of 4, you will receive one of each color. With orders of a single Superband Premium or the Family Mosquito Pack the colors will be randomly chosen for you.

SUGGESTED USE: Simply slide the Superband on your wrist or ankle. Store the Superband in its airtight bag when not in use.



1211500	1 Count (Assorted colors)	\$1.87
1211505	Set of 4 (One of each color)	\$5.30
1211560	Superband Mosquito Family Pack	\$12.50



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

TARGET: Unbalanced soil with unknown pH and NPK levels.

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

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



1275300	LaMotte Test Kit	(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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All Seasons Indoor Composter® Kit

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

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

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

Bokashi Ingredients:

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

SUGGESTED USE:

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

1202730	SCD All Seasons Bokashi - 2.2 lb. bag (2.2 lbs.)	\$13.95
1202731	SCD Indoor Composter Kit (Bucket & bag) (5.5 lbs.)	\$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.

1202401	1 Food Waste Fermenter (5 lbs.)	\$59.50
1202402	2 lb. Bag Bokashi (3 lbs.)	\$16.00
1202420	5 Gallon Bucket 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. (See below)**

1308011	Worm Factory 3-Tray System (Black) (15 lbs.)	\$79.95
1308014	Worm Factory 3-Tray System (Terracotta) (15 lbs.)	\$89.95
1308012	Worm Factory 5-Tray System (Black) (16 lbs.)	\$99.95
1308016	Worm Factory 5-Tray System (Terracotta) (16 lbs.)	\$109.95

Replacement trays available online.



ARBICO Organics™ Earthworms - *Eisenia fetida*

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

TARGET: Vermicomposting bins and soils.

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

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

1308003	≈1,000 Worms (2 lbs.)	\$34.00
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



SOIL CONDITIONERS

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



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



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



Tiger 90CR® Organic Sulphur, 0-0-0-90

Lowers pH - Treats Alkaline Soil!

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

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

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

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



ARBICO Organics™ 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		CALL

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



ARBICO Organics™ Compost Tea Bag

The Healthy Elixir For Your Plants!

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

DESCRIPTION: A highly concentrated extract of beneficial microorganisms.

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

1305402	Compost Tea Bag - Small	(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

Sustane® Compost Tea Bags, 4-6-4

This OMRI Listed Fertilizer Offers Dual Applications In One Simple Bag.

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

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

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

1305550	1 Bag (12 ct.)	(.75 lb.)	\$9.00
1305555	1 Bag (12 ct.) Case of 5	(3 lbs.)	\$42.00
1305560	1 Bag (12 ct.) Case of 10	(6 lbs.)	\$80.00
1305570	1 Bag (50 ct.)	(3.5 lbs.)	\$25.00
1305575	1 Bag (50 ct.) Case of 5	(17.5 lbs.)	\$90.00



HEALTHY SOIL RECIPE

Breathe Life Into Your Garden!



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

Regular Kit Includes:

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

\$44.98

1200803 Regular Size Kit

(Total price old separately: \$53.39)

Large Kit Includes:

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

\$99.98

1200805 Large Size Kit

(Total price old separately: \$112.99)

ARBICO Organics™ Root Build 240™ Mycorrhizal Fungi



Introducing Our New & Improved Mycorrhizal Fungi – ARBICO Organics Root Build 240!



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

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

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

1135001	Root Build 240 - 1 oz.	(.25 lb.)	\$9.00
1135002	Root Build 240 - 2 oz.	(.5 lb.)	\$12.50
1135003	Root Build 240 - 8 oz.	(.75 lb.)	\$31.50
1135004	Root Build 240 - 1 lb.	(1.25 lbs.)	\$45.00
1135005	Root Build 240 - 10 lbs.	(11.5 lbs.)	\$329.00

Mycormax® Biological Inoculum



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

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



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

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

1811020	Mycormax 24 Tea Bags/Pack	(1.25 lbs.)	\$10.25
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ARBICO FAMILY OF FERTILIZERS & AMENDMENTS

Down To Earth™



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



MaxiCrop



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



JH Biotech, Inc.



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



Neptune's Harvest



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



John & Bob's Smart Soil Solutions



Healthy soil is the basis for a robust ecosystem and John & Bob's products are formulated to provide soil with essential building blocks. Using a special blend of microbes, minerals and organic compounds, these products supply beneficial soil organisms with the ingredients they need to keep thriving. Plants in healthy soil are better able to fight off pests and diseases, leading to greater yields. Using the John & Bob's four product system of Optimize, Maximize, Nourish-Bio soil and Penetrate can lead to a healthier, more bountiful garden.



SaferGro



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



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, NV



RootShield® Home & Garden



Help Your Vegetables, Flowers & Ornamentals Fight Root Diseases!

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

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

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

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



Cease® - Biological Fungicide



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

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

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

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

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



Serenade® Garden Disease Control



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

TARGET: Black Spot, Powdery Mildew, Rust, Gray Mold, Late Blight, Scab and many more.

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

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

2000080	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



Monterey Complete Disease Control



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

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

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

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

1458203	32 oz. RTU	(2.5 lbs.)	\$16.40
1458200	8 oz. Concentrate	(1 lb.)	\$13.00
1458201	1 Pint Concentrate	(1.5 lbs.)	\$17.80
1458202	1 Gallon Concentrate	(10 lbs.)	\$101.99

RTU cannot be shipped to the following states: CT, HI, ID, MO, MS, NC, OH, RI

Concentrate cannot be shipped to the following states: CT, HI, ID, IL, MO, MS, NC, ND, OH, RI **Please Note:** Additional no-ship states for the 1 Gallon size (#1458202): NY, OK



Monterey Liquid Copper Fungicide RTU



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

TARGET: Use to control Powdery Mildew, Black Spot, Downy Mildew, Late Blight, Rusts, Leaf & Fruit Spot, Fruit Rot and Leaf Curl.

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

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

1455150	Monterey Liquid Copper Fungicide 32 oz. RTU	(2.5 lbs.)	\$13.70
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BONIDE® Liquid Copper Fungicide

Use For The Control & Prevention Of Many Fungal Diseases!

TARGET: Works as a knockdown control for the following: Anthracnose, Bacterial Blight, Bacterial Leaf Spot, Black Spot, *Botrytis*, Brown Rot, Cedar-Apple Rust, Citrus Scab, Downy Mildew, Fireblight, *Phytophthora*, Powdery Mildew, and Scab.

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

SUGGESTED USE:

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

1455101	16 oz. Concentrate	(1.75 lbs.)	\$16.45
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SuffOil-X®



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

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

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

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

1332805	2.5 Gallons	(22 lbs.)	\$62.00
1332806	Case of 2 ct./2.5 Gals.	(42 lbs.)	\$112.00

Call for larger sizes.



BotryStop™ Biofungicide



These Fungal Spores Will Fight To Replace Pathogens On Plants.

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

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

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

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

1332840	12 lb. Bag	(13 lbs.)	\$270.00
1332841	Case of 12 lb. Bags/4 ct.	(50 lbs.)	\$748.00



BioSafe Disease Control - Concentrate & RTU



Eliminate Bacteria & Fungi On Contact!

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

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

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

1222504	32 oz. RTU	(2 lbs.)	\$14.75
1222505	32 oz. RTS	(2 lbs.)	\$25.00



MilStop® Broad Spectrum Foliar Fungicide



Excellent For Controlling Powdery Mildew & Other Fungal Diseases!

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

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

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

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



The Power of Peroxyacetic Acid

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

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

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

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.)	\$225.00
1222502	5 Gallons	(52 lbs.)	\$360.00

Call for larger sizes.

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

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



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.)	\$155.50
1222517	5 Gallons	(52 lbs.)	\$245.50

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

WARNING

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



PERpose Plus™ Broad Spectrum Algacide & Fungicide

This OMRI Listed Algacide/Fungicide Works On Contact With No Odor!

TARGET: Algae, *Aphanomyces*, Anthracnose, *Alternaria*, *Botrytis* (grey mold), Black Spot, *Fusarium* (root rot), *Erwinia*, *Phytophthora* (blights, rots), Leaf Spot, Powdery Mildew, *Plasmopara*, *Phythium*, *Pseudomonas*, Rust, Smut, Scab, *Rhizoctonia*, *Xanthomonas*, Wilts & Blights, *Thielaviopsis*, *Uncinula* (powdery mildew), *Sclerotinia*.

DESCRIPTION: This hydrogen peroxide based, OMRI listed, broad spectrum algacide and fungicide works by oxidizing the outer cell membrane of vegetative endospore, fungus, algae, yeast and mold spore cells. The oxygen released in this process helps relieve anaerobic conditions. In addition to the hydrogen peroxide, this proprietary formula contains stabilizers and buffers that counteract phytotoxicity. This allows you to use PERpose Plus freely all over plant material and into the root zone without fear of damaging delicate plants. Unlike similar products that contain peracetic acid and emit a strong odor, PERpose Plus is odor free. You can apply this product to any part of the plant, in chemigation/fertigation systems and on non-porous surfaces.

SUGGESTED USE: Ornamentals, nursery stock, seed, seedbed, seedlings, agricultural crops, turf, bedding plants, bulbs and more.

1223000	5 Gallons*	(51 lbs.)	\$142.00
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*Call for freight quote. Larger sizes available.

This product cannot be shipped to the following states: CA



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

See page 19 for Milky Spore Granules.

Nitron's Thatch Away

Want A "Thatch-Free" Lawn?

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

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

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

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

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



1388201	1 Quart	(3 lbs.)	\$16.00
1388202	1 Gallon	(10 lbs.)	\$45.00



NemaSeek Hb Beneficial Nematodes

Moles love grubs and having grubs attracts moles into your soil where they further damage the grass. Controlling the grubs will help reduce the attraction of moles to your lawn and garden. If your

grubs are larvae of the Japanese Beetle, consider applying Milky Spore before you apply beneficial nematodes to begin inoculating your soil against this invasive species. **See pages 12-13 for more information.**

Chameleon Adaptable Hose End Sprayer

Perfect Application!

DESCRIPTION: Multipurpose sprayer that 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
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All Purpose Dispenser Tube

Dispense Milky Spore & Other Powdered Material Easily!

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

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



1216052	All-Purpose Dispenser Tube	(2 lbs.)	\$14.50
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BROAD SPECTRUM

BONIDE® Burnout

Fast Acting Weed & Grass Killer!

TARGET: Unwanted grass and weeds.

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

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



1453775	1 Quart Concentrate	(2.5 lbs.)	\$21.00
1453776	1 Gallon Concentrate	(9 lbs.)	\$48.00
1453777	2.5 Gallons Concentrate	(22 lbs.)	\$99.00
1453778	1 Quart RTU	(3 lbs.)	\$11.50
1453779	PNS 1.33 Gallon RTU	(12 lbs.)	\$42.00

Avenger® Weed Killer

Fast-Acting Natural Herbicide.

TARGET: Broadleaf, crab grass and other unwanted weeds.

DESCRIPTION: Avenger Weed Killer is a natural citrus oil based non-selective herbicide that eliminates broadleaf, crab grass and other unwanted weeds naturally and quickly.

SUGGESTED USE: Varies depending on size of weeds. The 24 oz. RTU is already mixed at a 1:3 ratio. Concentrate: Small annual weeds use 1:6 ratio; large annual weeds use 1:4.5 ratio; Hard to control weeds use 1:3 ratio.



1453808	24 oz. RTU*	(2 lbs.)	\$12.95
1453809	1 Quart Concentrate	(3 lbs.)	\$25.00
1453810	1 Gallon Concentrate	(10 lbs.)	\$80.00
1453812	5 Gallon Concentrate	(48 lbs.)	\$330.00

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



BioSafe Weed Control

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

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

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

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



1453821	32 oz. Concentrate	(9 lbs.)	\$21.99
1453822	1 Gallon Concentrate	(9 lbs.)	\$69.99

BONIDE® Weed Beater Fe RTU

Kill Just The Weeds, Not The Lawn!

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

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

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



1453790	1 Quart	(2.5 lbs.)	\$9.99
1453791	1 Gallon	(9 lbs.)	\$28.99

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

TRAPS

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

The Smart Mouse Trap

A Humane Solution For Trapping Pesky Mice!

TARGET: Mice.

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

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



1255001	Smart Mouse Trap - 1 Per Box	(.64 lb.)	\$14.20
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NemaSeek Hb Beneficial Nematodes

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

Moles are attracted to the insects and grubs in the soil and destroy plants by their tunneling to get to them. By controlling the grub populations, you are eliminating the moles food source and deterring them from the area. **See pages 12-13 for more information.**



REPELLENTS

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

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



REPELLENTS

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

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

TARGET: Gophers & moles.

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

Active Ingredients:

Castor Oil USP or equivalent.....	65%
Sodium Lauryl Sulfate.....	15%

Inert Ingredients:

Water.....	20.0%
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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



Deer Ban™ Repellent Capsules

Odorless To Humans, These Gel Capsules Smell Like Coyotes To Deer!

TARGET: Use to repel deer in outdoor areas.

DESCRIPTION: Now you no longer need to use an animal repellent that is equally repellent to you as it is to animals; this product is completely odorless to humans. With these easy-to-use capsules your hands will not come into contact with the repellent; you simply drop them where you need coverage and add water to activate. The active ingredient of coyote urine does all the work by leaving that tell-tale predator scent. This biodegradable product can be used year round, will not wash away with rain or snow and offers up to 90 days of protection.

SUGGESTED USE: Disperse one capsule every 10-20 feet around your garden or flowerbed perimeter or place in planters. Be sure there is a capsule on every outside corner. Do not open capsules or disperse contents directly onto ground. Add water to activate repellent.

1264050	20 ct. Pack	(.25 lb.)	\$11.99
1264051	50 ct. Pack	(.25 lb.)	\$19.99
1264502	150 ct. Pack	(.25 lb.)	\$54.99



Sweeney's® Mole & Gopher Repellent

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

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

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

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

1287510	4 lb. Shaker Bag	(4 lbs.)	\$18.99
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CRAWLING INSECT CONTROL



Beneficial Nematodes - Triple Threat

Biological Control For Crawling Insects!

The Triple-Threat Combo includes one package of each of the Beneficial Nematodes that ARBICO Organics supplies: *Heterorhabditis bacteriophora*, *Steinernema feltiae* and *Steinernema carpocapsae*. Use the Triple Threat to combat a broad variety of soil dwelling pests! Safe for use around home and gardens! [See pages 12-13 for more information.](#)

ANT CONTROL

Monterey Ant Control



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

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

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

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



1257895	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

FIRE ANT CONTROL

Orange Guard Fire Ant Control



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

TARGET: Fire ants.

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



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

1460005 1 Gallon (10 lbs.) **\$32.75**

Registered in Southern States and CA only, (where fire ants are found).

This product CAN ONLY be shipped to the following states: AL, AZ, AR, CA, CT, FL, GA, LA, MS, NC, NE, NC, NM, OK, SC, TN, TX

CRAWLING INSECT CONTROL

Orange Guard® Home Pest Control



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

TARGET: Crawling pest insects.

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



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

1460001	32 oz. Spray Bottle	(3 lbs.)	\$10.97
1460002	1 Gallon with Sprayer	(10 lbs.)	\$35.00
1460003	Replacement Sprayer	(.25 lb.)	\$5.30



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

EcoPCO® AR-X Multi-Purpose Insecticide

Quick Pest Knockdown In A Gentle Botanical-Based Formula!

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

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

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



1457403	EcoPCO® AR-X Multi-Purpose Insecticide	(1.7 lbs.)	\$17.99
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Perma-Guard™ Crawling Insect Control



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

TARGET: Any crawling or hopping pest insect.

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

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

1218250	Perma-Guard - 2 lb. Bag	(3 lbs.)	\$10.15
1218260	Perma-Guard - 5 lb. Bag	(6 lbs.)	\$18.35

Case sizes available.

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



Essentria™ G Granular Insecticide

A Granular That Handles A Handful Of Outdoor Pests!

TARGET: Ants, 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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HOUSEHOLD PEST CONTROL

Revenge® Pantry Moth Trap

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

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

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

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

1280302	Revenge Pantry Moth Trap - 2 Pack	(.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® 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



Harris Famous Roach Tablets

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

TARGET: Roaches, waterbugs, silverfish and ants.

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

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

1219550	Harris Famous Roach Tablets - 6 oz.	(.5 lb.)	\$6.25
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Aunt Fannie's FlyPunch!



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

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

DESCRIPTION: Fruit flies are not just nuisance pests; they can transmit many pathogens, including *Escherichia coli* (E.coli) bacteria. This unique formulation acts in 3 parts: it attracts, disables and kills fruit flies. The attractant will draw them into the DiveJar dispenser and, once they touch the substance inside, the disabling agent quickly goes to work to break down their exoskeleton. An additional ingredient draws the disabled insect down into the liquid, where drowning will finish them off. Once your DiveJar is full, dispose of the entire thing.



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

1280650	Aunt Fannie's FlyPunch! - 6 oz.	(.5 lb.)	\$7.99
1280655	Aunt Fannie's FlyPunch! - 6 oz./6 Pack	(3.5 lbs.)	\$43.00

Glass Fruit Fly Trap

An Elegant Solution!

TARGET: Fruit flies.

DESCRIPTION: Made from beautiful colored glass for design and functionality! This glass jar is 5 inches tall and designed with a hidden entrance for pests at the bottom of the bottle.



SUGGESTED USE: Mix the packet of bait with 1/4 cup water, add a drop or two of dishwashing soap and pour it gently into the trap. Replace the cork stopper. The bait mixture is good for 10 to 14 days or until the trap is full and must be emptied.

1280903	Glass Fruit Fly Trap w/Lure	(1.25 lbs.)	\$13.95
1280905	Glass Fruit Fly Trap Lure - 3 Pack	(.6 lbs.)	\$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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PERSONAL CARE

Harris Bed Bug Killer



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

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

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



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

1219500	8 oz. Puffer Bottle	(1 lb.)	\$8.00
1219501	32 oz. Spray	(3 lbs.)	\$12.00
1219502	64 oz. With Duster	(5 lbs.)	\$16.29

ClimbUp®

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

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



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

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

1250100	ClimbUp Original 1 Unit	(.25 lb.)	\$4.75
1250101	ClimbUp Original 4-Pack	(1 lb.)	\$13.50
1250102	ClimbUp Original 12-Pack	(3 lbs.)	\$35.95

CATALOG INDEX

Actinovate® Lawn & Garden Fungicide.....	43	Deer Ban™ Repellent Capsules.....	49	Mycotrol® WPO.....	23
All Purpose Dispenser Tube.....	46	Delta Trap.....	21	Nitron Formula A-35 With Micro-Nutrients.....	38
All Seasons Indoor Composter® Kit.....	37	Diatomaceous Earth – Food Grade.....	30	Nitron's Humic Acid.....	38
Aloe Herbal Horse Spray.....	31	DiPel® DF Dry Flowable.....	17	Nitron's Thatch Away.....	46
Aphid Parasite - <i>Aphelinus abdominalis</i>	5	EcoPCO® AR-X Multi-Purpose Insecticide.....	51	Nolo Bait.....	20
Aphid Parasite - <i>Aphidius colemani</i>	4	Electronic Flea Trap.....	32	Olson Garden Guard Yellow Sticky Ribbon.....	14
Aphid Parasite - <i>Aphidius ervi</i>	5	EM•1® Microbial Inoculant.....	30	Orange Guard Fire Ant Control.....	50
Aphid Predator - <i>Aphidoletes aphidimyza</i>	4	EM•1® Microbial Inoculant.....	38	Orange Guard® Home Pest Control.....	50
AQUABAC® 200G Granular Bti Mosquito Control.....	33	EM•1® Rice Bran Bokashi Kit.....	37	Organic JMS Stylet-Oil®.....	22
ARBICO Organics™ Compost Plus.....	39	Essentria™ G Granular Insecticide.....	32 & 51	OxiDate® 2.0.....	45
ARBICO Organics™ Compost Tea Bag.....	39	Fertilizers & Amendments.....	41	Perma-Guard® Crawling Insect Control.....	32 & 51
ARBICO Organics™ Earthworm Castings.....	39	Flea 'n Tick B Gone™.....	32	PERpose Plus™ Broad Spectrum Algaecide & Fungicide.....	45
ARBICO Organics™ Earthworms - <i>Eisenia fetida</i>	37	Fungus Gnat Predator - <i>Stratiolaelaps scimitus</i>	9	Pest Wizard Blue-Yellow Card Trap.....	16
ARBICO Organics™ Fly Eliminators.....	28-29	Glass Fruit Fly Trap.....	53	Praying Mantids - <i>Tenodera aridifolia</i>	3
ARBICO Organics™ Good Bug Blend.....	11	Green Cleaner.....	26	Purple Scale Predator - <i>Rhyzobius lophanthae</i>	10
ARBICO Organics™ Good Bug Power Meal.....	11	Green Lacewings - <i>Chrysoperla rufilabris</i>	3	PyGanic® Gardening.....	20 & 27
ARBICO Organics™ Holistic Fly Defense.....	31	Gypsy Moth Trap.....	21	PyGanic® Specialty.....	27
ARBICO Organics™ Root Build 240™ Mycorrhizal Fungi.....	40	Harris Bed Bug Killer.....	53	Quick Kill Mosquito Bits®.....	33
ARBICO Organics™ Solar Fly Trap.....	31	Harris Famous Roach Tablets.....	52	Rapitest® Digital 3-Way Analyzer.....	36
ARBICO Organics™ Yellow Insect Traps.....	15	Healthy Soike Recipe Large Kit.....	40	Red Scale Parasite - <i>Aphytis melinus</i>	10
Assassin Bug - <i>Zelus renardii</i>	4	Healthy Soil Recipe Regular Kit.....	40	Repeater™ & Little Pete® Multiple Catch Mouse Traps.....	48
Aunt Fannie's FlyPunch!.....	53	<i>Heterorhabditis indica</i>	11	Revenge® Pantry Moth Trap.....	52
Avenger® Weed Killer.....	47	Insect-A-Peel Trap Systems.....	14	RootShield® Home & Garden.....	42
AzaGuard®.....	25	J.T. Eaton™ Answer® Boric Acid Insecticidal Dust.....	51	RootShield® Plus Granules & RootShield® Plus WP.....	42
AzaMax™.....	25	Ladybugs - <i>Hippodamia convergens</i>	3	Rove Beetle - <i>Dalotia coriaria</i>	9
Azera® Gardening.....	27	LaMotte Garden Guide Soil Test Kit.....	36	SaniDate® 5.0.....	45
Beneficial Nematodes.....	12-13	Large Plastic Delta Trap.....	21	SCD Odor Away™.....	30
BioCare® Clothes Moth Trap.....	52	Luster Leaf® Rapitest® Soil Test Kit.....	36	Semaspore Bait™.....	20
BioCare® Cockroach Traps.....	52	Mealybug Destroyer - <i>Cryptolaemus montrouzieri</i>	10	Serenade® Garden Disease Control.....	42
BioCare® Codling Moth Trap.....	22	Mealybug Parasitoid - <i>Anagyrus pseudococci</i>	10	Slug Saloon.....	17
BioCare® Gnat Stix.....	15	Mexican Bean Beetle Parasite - <i>Pediobius foveolatus</i>	9	Sluggo®.....	17
BioCare® Window Fly Trap.....	53	Milky Spore Granular.....	19	Snailer.....	17
BioSafe Disease Control - Concentrate & RTU.....	44	Milky Spore Powder.....	19 & 46	SNS 209 All Natural Systemic Pest Control Concentrate.....	26
BioSafe Weed Control.....	47	MilStop® Broad Spectrum Foliar Fungicide.....	44	Soil Analysis.....	36
BiteBlocker® Herbal Repellents.....	34	Minute Pirate Bug - <i>Orius insidiosus</i>	4	SoluNeem®.....	24
Biting Fly Trap.....	31	Mite Predator - <i>Amblyseius andersoni</i>	6	Spider Mite Destroyer - <i>Feltiella acarisuga</i>	7
Blue Sticky Strips.....	16	Mite Predator - <i>Amblyseius swirskii</i>	6	Spider Mite Destroyer - <i>Stethorus punctillum</i>	8
BONIDE® Burnout.....	47	Mite Predator - <i>Galendromus occidentalis</i>	7	Sticky Traps.....	15
BONIDE® Insecticidal Soap RTU.....	24	Mite Predator - <i>Mesoseiulus longipes</i>	7	Sticky Stuff Sticky Coating.....	16
BONIDE® Liquid Copper Fungicide.....	43	Mite Predator - <i>Neoseiulus californicus</i>	7	Stiky™ Plant Stakes.....	15
BONIDE® Mosquito Beater Granules.....	34	Mite Predator - <i>Neoseiulus fallacis</i>	8	Stiky™ Strips Yellow Sticky Traps.....	15
BONIDE® Mosquito Beater WSP.....	33	Mite Predator - <i>Phytoseiulus persimilis</i>	6	SuffOil-X®.....	22 & 44
BONIDE® Mouse Magic Mouse Repellent.....	48	Monterey 70% Neem Oil.....	24	Superband Premium.....	35
BONIDE® Neem Oil RTU & Concentrate.....	24	Monterey All Natural Snail & Slug Spray RTU.....	17	Surround® WP.....	26
BONIDE® Repels-All® Animal Repellent.....	48	Monterey Ant Control.....	50	Sustane® Compost Tea Bags, 4-6-4.....	39
BONIDE® Slug Magic.....	17	Monterey B.t.....	18	Sweeney's® Mole & Gopher Repellent.....	49
BONIDE® Thuricide - Liquid Concentrate.....	18	Monterey Complete Disease Control.....	43	Tanglefoot® Tangle-Trap® Sticky Coating.....	16
BONIDE® Weed Beater Fe RTU.....	47	Monterey Fruit Tree Spray Plus.....	22	Terro® Ant Baits.....	52
BotaniGard® ES & 22WP <i>Beauveria bassiana</i> Strain GHA...	23	Monterey Garden Insect Spray Concentrate & RTU.....	26	The Smart Mouse Trap.....	48
BotryStop™ Fungicide.....	44	Monterey Garden Insect Spray.....	18	The Worm Factory.....	37
Bug Bam!® Wristbands, Camp Grids & Pet Tags.....	35	Monterey Lady Bug Attractant.....	11	Thrips Predator – <i>Neoseiulus cucumeris</i>	9
Bug Button™ & Mosquito Eliminator™ Grid.....	35	Monterey Liquid Copper Fungicide RTU.....	43	Tiger 90CR® Organic Sulphur, 0-0-0-90.....	38
Bumblebee Hives.....	11	Monterey Take Down Spray.....	27	Whitefly Parasite - <i>Delphastus catalinae</i>	6
Cease® - Biological Fungicide.....	42	Mosquito Barrier®.....	34	Whitefly Parasite - <i>Encarsia formosa</i>	5
Chameleon Adaptable Hose End Sprayer.....	19 & 46	Mosquito Dunks®.....	33	Whitefly Parasite - <i>Eretmocerus eremicus</i>	5
Chase™ Granular Mole & Gopher Repellent.....	49	Mosquito Eliminator™ Wristband.....	35	Wing Trap.....	21
Chig-R-Blok.....	34	Moth Egg Parasites - <i>Trichogramma spp.</i>	8	Yellow Sticky Trap Ribbon.....	14
ClimbUp®.....	53	Mycormax® Biological Inoculum.....	40	Yellow Sticky™ Tape.....	14
Debug® Turbo.....	25	Mycotrol® ESO.....	23		



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Sheri & Rick Frey,
Founders ARBICO Organics

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06/2017