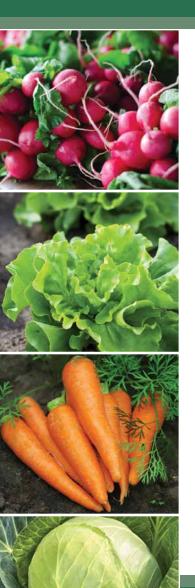


Natural Products For Your Organic Garden, Farm and Livestock!

This year marks 40 years of service to our customers and commitment to encouraging sustainable and organic practices. As this milestone comes to an end, we would like to extend our gratitude to our customers and we look forward to continuing to serve our community.



Your Multi-Pest Solution For Optimal Growing



Protect Your Farm & Garden From Soil Developing Pests By Applying Beneficial Nematodes



Apply To Soil For Control Of Target Pests:

- Beetle Grubs
- Borers
- Caterpillars
- Fungus Gnats
- Flea Beetles
- Leafminers
- Rootworms
- Thrips
- Weevils & More!



Beneficial Nematodes are live, microscopic rganisms (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. See pages 13-15 for more information.

contents

PREDATORY INSECTS

- 4 Aphid Control
- 7 Whitefly Control
- 8 Fungus Gnat Control
- 9 Thrips Control
- **10** Mite Control
- 12 Mealybug/Scale Control
- **13** Beneficial Nematodes

PEST CONTROL

- 16 Pest Insect Traps
- 19 Slug & Snail Control
- 20 Caterpillar & Moth Control
- 24 Insecticides

SOIL FERTILITY

- 34 Propagation
- **35** Soil Amendments
- **37** Fertilizers
- **44** Production Aids

PATHOGEN CONTROL

- **40** Disease Control
- 43 Cleaning & Sanitizing

HOME PEST CONTROL

- **48** Crawling Insect Control
- 50 Indoor Pest Traps







Beneficial Nematodes

https://www.facebook.com/ ARBICO.Organics

https://www.instagram.com/







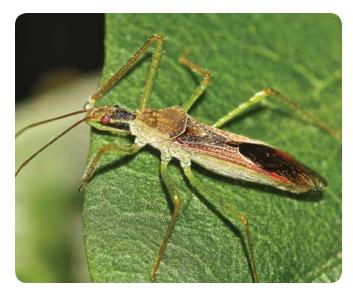
https://www.youtube.com/user/ ArbicoOrganics

https://arbico-organics.blogspot.com



How To Contact Us: 800-827-2847 www.arbico-organics.com customercare@arbico.com

POWERFUL PEST CONTROL



The Assassin Bug is a hardworking predator that feeds in all life stages. Great for greenhouse and indoor cultivations with wide temperature range activity and varied pests. Free Shipping!

ADVANTAGES

- Predatory in all life stages
- Wide variety of pests consumed
- Active in high temperatures/low humidities
- Not attracted to artificial light



Eggs

Assassin Bugs are delivered as egg clusters. Monitor for hatching up to 6 days.



Nymphs

Once hatched, Assassin Bug nymphs are visible and more easily monitored. Their two month life-span provides continuous control.

Adults

Assassin Bugs produce a resin on their legs and rostrum that increases ability to capture prey. Once captured, Assassin bugs pierce their prey with their rostrum and inject a digestive enzyme. This allows *Zelus* to kill insects much larger than themselves.

Assassin Bug - Zelus renardii

These Voracious Ambush Predators Will Stay In Your Crops & 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 in an infestation. For heavy infestations, release 500-1,000 eggs weekly in no more than 2,000 square feet. Release 5-10 thousand eggs biweekly per acre. Shipped as eggs, these beneficial insects will typically hatch in under a week.

Temperature: 55-110°F		Relative Humidity: 10-75%
1000105	≈250 Eggs	\$30.00
1000106	≈500 Eggs	\$50.00
1000107	≈1,000 Eggs	\$85.00

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

For volume and continuity pricing please call 1-800-827-2847.

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



Green Lacewings - Chrysoperla rufilabris, Chrysoperla sp.

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

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

DESCRIPTION: Green lacewings are available in all three life stages: egg, larva and adult. Green lacewing larvae paralyze their prey with venom and then draw

out the body fluids of the pest into their large hollow jaws. Each lacewing larva will devour 200 or more pests or pest eggs a week during their two to three week developmental period.

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

1110011	≈5,000 Eggs	\$27.00
1110016	≈10,000 Eggs	\$37.80
1110100	≈5,000 Eggs on Cards	\$28.50
1110102	≈10,000 Eggs on Cards	\$45.00
1110105	≈25,000 Eggs on Cards	\$90.00
1110005	Larval Frames ≈400 Larvae	\$25.00**
1110010	≈1,000 Larvae in Bottle	\$24.00**
1110006	≈100 Adults	\$44.00**
1110007	≈500 Adults	\$170.00**
Green Lacev	ving Eggs Programs:	
1110002	\approx 1,000 Eggs/week for min. 3 shipments	\$15.60
	(Price Per Shipment)	
1110003	≈5,000 Eggs/week for min. 3 shipments	\$24.30
	(Price Per Shipment)	
1110023	≈10,000 Eggs/week for min. 3 shipments	\$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	Farms	
≈1-3/sq. ft., 100/Tree	≈200-500/Acre	

Larvae & Adults Require OVERNIGHT Shipping

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

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

Ladybugs - Hippodamia convergens

Ladybugs Consume A Vast Quantity Of Soft-Bodied Insects.

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



DESCRIPTION: One of the most common of all

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

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

Temperature: Moderate: 62-88°F		Relative Humidity: Mi	nimum 40%
1112525 1112511 1112512 1112513 1112505 1112506	≈1,500 - Starter Size ≈4,500 - Half Pint ≈9,000 - Pint ≈18,000 - Quart ≈35,000 - 1/2 Gallon ≈70.000 - 1 Gallon	≈800 sq. ft. ≈2,500 sq. ft. ≈5,000 sq. ft. ≈10,000 sq. ft. ≈1/2 acre ≈1 acre	\$12.95 \$22.50 \$29.00 \$43.00 \$71.00 \$125.00
1112500	~70,000 1 Galloll		\$125.00

Subject to seasonal availability.

Expedited Shipping Required

Minute Pirate Bug - Orius insidiosus

Excellent General Predator In Field Crops & Greenhouses.

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



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

SUGGESTED USE (Depending upon level of infestation): Sold as adults. For

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

Temperature: 64-82°F	Relative Humidit	y: Moderate ≈60%
1117001	≈500 Count	\$53.00
1117003	≈1,000 Count	\$88.00
1117004	≈2,000 Count	\$154.00

Overnight Shipping Required



APHID CONTROL

Aphid Predator - Aphidoletes aphidimyza

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

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



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

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

Temperature: Warm 64-77°F		Relative Humidity: Moderate ≈70%	
1101001	≈1,000 Pupae	\$80.00	
1101003	≈3,000 Pupae	\$207.00	
1101002	4 x 250 Pupae i	n Blister Packs \$60.00	
Overnight Shipping Required			

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 \approx 1-8/1 sq. yd. or \approx 500-3,000/acre.

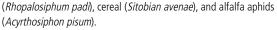
Temperature: 70-77°F	Relative Humidity: High ~80%	
1101302	≈500 Mummies	\$43.00
1101301	≈1,000 Mummies	\$54.00
1101303	≈5,000 Mummies	\$189.00
1101304	≈10,000 Mummies	\$340.00

Overnight Shipping Required

Aphid Parasite - Aphelinus abdominalis

These Ravenous Predators Will Eat & Parasitize Aphid Nymphs!

TARGET: Aphids, including potato (*Macriosiphum euphorbiae*), foxglove (*Aulacorthum solani*), green peach (*Myzus persicae*), California laurel (*Euthoracaphis umbellulariae*), cotton (*Aphis gossypii*), melon (*Aphis gossypii*), bird cherry-oat



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 \approx 250/5,000 sq. ft. or \approx 1,000-4,000/acre.

Temperature: 70-77°F	Relative Humidity: Low-H	High ≈60-80%
1101101	≈250 Mummies	\$80.00
(Overnight Shipping Required	

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 (*Acyrthosiphon pisum*). Also



attacks greenbug/wheat (*Shizaphis gramimnum*), 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 \approx 1-3/10 sq. ft. or 1-8/sq. yd.

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

≈250 Mummies

1001001

\$65.00

Overnight Shipping Required

ARBICO Organics – Natural Solutions Since 1979

WHITEFLY CONTROL

Integrated Pest Management of Whiteflies

- 1. Carefully inspect new plants before transplanting.
- 2. Dip foliage and root ball in soapy water, or hydrogen peroxide solution, to clean and kill any existing whitefly eggs, nymphs or adults.
- 3. Monitor pest thresholds with yellow sticky traps or ribbons.
- 4. Release Green Lacewing preventatively before infestation becomes severe.
- 5. Consider specialist parasites and predators for targeted whitefly infestations.
- 6. For quick knockdown control, consider sprays with a low environmental impact such as *Beauveria bassiana* products (see page 26) or Neem based sprays.
- Clean tools and equipment as well as greenhouse structures between growing seasons. See Cleaning & Sanitizing on page 43.

Whitefly Parasite -Encarsia formosa



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

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

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

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

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

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

2nd Day Shipping Required

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

Whitefly Parasite - Eretmocerus eremicus

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

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



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

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

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

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

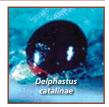
1000703

Overnight Shipping Required

Whitefly Predator - 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 \approx 3-4 eggs daily and adults live for approximately one month. Adult beetles

capture prey with their mandibles, inject paralyzing venom & feed on pest body fluids. Shipped as adults, they should be used at the first signs of infestation.

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

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

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

Overnight Shipping Required



Integrated Pest Management of Fungus Gnats

- 1. Monitor and trap with yellow sticky traps to assess the severity of infestation.
- 2. Control soil moisture by providing proper drainage, avoiding standing water and allowing media to dry between waterings.
- 3. Circulate air and prune plants to ensure adequate air flow.
- 4. Prevent and treat infestations with Bacillus thuringiensis israelensis (see page 23).
- 5. Apply NemAttack Steinernema feltiae Beneficial Nematodes to parasitize fungus gnat larvae as well as thrips.
- 6. Rove beetles (Dalotia coriaria) are excellent predators that can establish in growing environments and control multiple soil dwelling pests.
- 7. Spray Beauveria bassiana to the foliage or drench growing media, where permitted.

Rove Beetle - Dalotia coriaria (=Atheta coriaria)

For Indoor Control Of Soil Dwelling Pests!

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



DESCRIPTION: "Rove beetles" will feed on small soil-dwelling pest larvae and eggs. Adults are a brown-black color, 3-4 mm long and winged. They are predacious in all stages and develop from egg to adult

in about 21 days; passing through three larval instars prior to pupation and adulthood. Adults consume about 150 pest fungus gnat eggs per day. Compatible with *Stratiolaelaps scimitus* (=Hypoaspis miles). Winged adults have high dispersal and colonization rates and are not recommended for outdoor use.

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

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

1101331	≈1000 Adults	\$78.00
1101332	≈3,000 Adults	\$170.00
	Overnight Shipping Required	

Overnight Shipping Required

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.

Stratiolaelaps scimitus

(=Hypoaspis miles)

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

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

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

Overnight Shipping Required



Monitor & Identify Using Sticky Traps

Trapping is the most efficient way to monitor your crop for pest insects and can often indicate the insect's presence early enough that other control measures can be taken. Bright yellow traps attract whiteflies and aphids while blue traps can draw thrips and leafminers. See pages 16-18 for more options.

mblyseius

Thrips & Whitefly Predator -

Amblyseius swirskii

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

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



DESCRIPTION: These predacious mites feed on

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

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

Temperature: Moderate 77-85°F		Relative Humidity	: 70%
BULK SIZES:			
1101312	≈25,000 in1 Liter Tube		\$62.00
1101319	≈50,000 in 1 Liter Tube		\$105.00
1101311	≈125,000 in 5 Liter Bag		\$235.00
1101309	≈200,000 Bulk		\$375.00
CONTROLLED RE	LEASE:		
1101317	≈50,000 in 200 Mini Sac	hets w/Hooks	\$120.00
1101318	≈62,500 in 500 Mini Sac	hets on Sticks	\$220.00
1101314	≈125,250 in 6 x 328 ft. S	Strips of Sachets	\$450.00
1101316	≈125,000 in 1,000 Mini	Sachets w/Hooks	\$330.00
1101315	≈250,000 in 1,000 Mini	Sachets w/Hooks	\$467.00
	Overnight Shipping	Required	



Thrips Predator - Amblyseius cucumeris

These Beneficial Mites Consume Vast Quantities Of Thrips.

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

DESCRIPTION: Tan colored adult females lay about 35 small white eggs throughout their lifespan of about

30 days. During the 7-10 day nymph stage, predation begins. Adults will consume about 1 pest a day. Predators are shipped as adults.

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

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

BULK SIZES:

1152204	≈50,000 in Bran/Vermiculite Mix	\$38.50
1152224	≈50,000 in Vermiculite	\$40.00
1152205	≈100,000 in Bran	\$55.00
1152206	≈250,000 in Bran/Vermiculite Mix	\$100.00
1152223	≈250,000 in Vermiculite	\$112.00
CONTROLLED F	RELEASE:	
1152225	≈125,000 in 500 Mini Sachets on Sticks	\$80.00
1152221	≈200,000 in 400 Sachets w/Hooks	\$65.00
1152201	≈200,000 in 200 Sachets w/Hooks	\$75.00
1152222	≈250,000 in 1,000 Sachets w/Hooks	\$120.00
1152226	≈250,000 in 1,000 Mini Sachets on Sticks	\$135.00
1152227	≈500,000 in 2,000 Mini Sachets on Sticks	\$245.00
1152220	≈1,602,000 in 6 x 525 ft. Strips of Sachets	\$600.00
	Overnight Shipping Required	

NemaSeek™ Sf Beneficial Nematodes

Sf Beneficial Nematodes interrupt thrips reproduction and reduce local populations leading to fewer adults and less resulting damage. Use in conjunction with predatory insects as part of an integrated pest management program. Apply with a



watering can, hose end sprayer (See page 45) or backpack sprayer. See pages 13-15 for more information.

MITE CONTROL

Mite Predator - Amblyseius andersoni

Great For Pre-Emergent Control Of Pest Mite Infestations!

TARGET: Various pest mites including broad mites, cyclamen mites, two-spotted spider mites, red spider mites, tomato russet mites and rust mites.



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.

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

1101323	≈25,000 in 200 Mini Sachets w/Hooks	\$150.00	
1101350	≈25,000 in 200 Mini Sachets on Sticks	\$162.00	
1101325	≈62,500 in 250 Sachets	\$225.00	
1101355	≈125,000 in 1,000 Mini Sachets on Sticks	\$650.00	
1101322	≈125,250 in 6 x 328 ft. Strips of Sachets	\$600.00	
CONTROLLED RELEASE:			
1101327	≈50,000 in 1 Liter Bottle	\$150.00	
1101321	≈125,000 in 5 Liter Bag	\$375.00	
Overnight Shipping Required			

Mite Predator - Galendromus occidentalis

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

Excellent For Hot & Dry Inland Areas!

TARGET: Two spotted spider mites, russet mites,

eriophyid mites, prunus rust mites, blister mites,

DESCRIPTION: Early stages are white, turning red or

brown depending on pest host consumed. Adults feed

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

European red mites; various mites.

Temperature: Hot 80-110°F

crops.

1151202

1151220

1151221

Mite Predator - Mesoseiulus longipes

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

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

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

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

Relative Humidity: 40-60%	
≈1,000 Count	\$38.50
≈5,000 Count	\$80.00
≈10,000 Count	\$142.00
	≈1,000 Count ≈5,000 Count

Overnight Shipping Required

Mite Predator - Neoseiulus (=Amblyseius) californicus

Good For Areas Where Temperatures Fluctuate Greatly Such As Deserts.

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

DESCRIPTION: This tiny, ivory, pear-shaped predatory mite feeds on a variety of pests on crops includina: cucumbers, tomatoes

plants, and greenhous relatively slow rate of about or starvation conditions. During the approx. 1-3 hed in about eggs per day. Eggs ha 4-12 days.

iemperature: wa	arm 50-105°F Relative Humidity: 40-80%	
1151201	≈1,000 Count	\$35.00
1151208	≈2,000 Count	\$43.00
1151209	≈5,000 Count	\$65.50
1151210	≈10,000 Count	\$106.00
1151212	≈25,000 Count	\$125.00
1151215	≈25,000 in 200 Mini Sachets	\$162.00
	Overnight Shipping Required	

s, strawberries, tropical foliage
use roses. Although adults consume prey at a r
ne egg per day, they can survive longer under
eir lifetime of about 20 days, females will lay a
atch within a few days and adulthood is reach

niditu 10 000

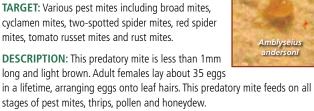
			Temperature: War	m 50-105°F	Relative Hur
0-110°F	Relative Humidity: Lov	v 40%	1151201	≈1,0	00 Count
~	1.000 Count	\$43.00	1151208	≈2,0	00 Count
	10.000 Count	\$160.00	1151209	≈5,0	00 Count
	50.000 Count	\$450.00	1151210	≈10,	000 Count
		\$ 150100	1151212	≈25,	000 Count
overnign	t Shipping Required		1151315		000 in 200 Min

Overnight Shipping Required



Mesoseiulus

longipes



Mite Predator - Neoseiulus (=Amblyseius) fallacis

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

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

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

DESCRIPTION: This predatory mite effectively sup-

presses 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 \approx 20-60 eggs during a 14-60 day life-cycle. The transition from egg to adult stage takes about 7-9 days.

Temperature: Mode	rate 50-80°F	Relative Hum	idity: Minimum 50%
1151401	≈1,000	Count	\$39.95
1151402	≈2,000	Count	\$52.00
1151403	≈5,000	Count	\$86.75
1151404	≈10,00	0 Count	\$152.00
			. d

Overnight Shipping Required

Mite Predator - Phytoseiulus persimilis

The Mite Predator With The Highest Consumption & Dispersal Rate.

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



mblyseius) fallacis

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.

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

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

Overnight Shipping Required

Spider Mite Destroyer - Feltiella acarisuga

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

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

DESCRIPTION: The entire life cycle is about 15 days. Adults are about 2 mm long, pinkish-brown, and have long legs. Adults do not prey on spider mites, but drink



water and nectar. The female adult gall-midges actively search for spider mite colonies and deposit eggs next to them for about 5 days. Eggs laid are .1 x .25 mm in size and are shiny and translucent. They hatch in 2 days. The larvae that hatch from the eggs are .2-2 mm in length and are orange-brown. They feed on all stages of the spider mite for 4-6 days, depending on the temperature, humidity and abundance of spider mites. Larvae pupate inside a white cocoon, usually on the underside of leaves along the veins. It takes 4-6 days to produce an adult.

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

1155701	≈250 Count	\$144.00
	Overnight Shipping Required	

Spider Mite Destroyer - Stethorus punctillum

Predatory In Both Larval & Adult Stages. Consumes All Life Stages Of Spider Mites.

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.

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

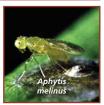
1113301	≈100 Count	\$92.00
	Overnight Shipping Required	

MEALYBUG/SCALE CONTROL

Red Scale Parasite - Aphytis melinus

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

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



DESCRIPTION: Shipped as adults. Females lay their eggs in host scale. Larvae hatch inside host bodies

and consume and kill scale. One adult will kill about 30 scale insects in one generation. Adult parasites live approximately 26 days.

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

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

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

Overnight Shipping Required

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.

and other soft-bodied insect pests. **DESCRIPTION:** Cryptolaemus is a small dark brown

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

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

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

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

Overnight Shipping Required

Mealybug Parasitoid - Anagyrus pseudococci

Stop Destructive Mealybugs With This Beneficial Parasitoid.

Image Citation: Crerob Hermosillo, Mexico

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



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

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

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

1132060	≈100 Mummies	\$32.00
1132061	≈200 Mummies	\$60.00
1132072	≈500 Mummies	\$120.00

Seasonal Availability.

Overnight Shipping Required





What Are Beneficial Nematodes?

Rootworms

Thrips

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?

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.

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.



New infective juveniles emerge loaded with "pest killer" bacteria and begin their search for a new host. As long as their is a suitable host, the Beneficial Nematodes will continue to parasitize. Beneficial nematodes can be used around and will not harm mammals, aquatic life, birds, reptiles or amphibians.

Apply To Soil For Control Of Target Pests:

- Beetle Grubs
- Leafminers

• Flies

- Worms
- Fungus Gnats Weevils
- And more!

How Do I Choose the Right Beneficial Nematodes?

Use the Selection Chart on the next page to choose the proper species by pest(s). If you are unsure which nematode to use or your target pest is not listed, please call and one of our bio-control specialists can assist. Remember Beneficial Nematodes control soil-dwelling life stages.

When & How Often Should Beneficial Nematodes Be Applied?

Use beneficial 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 7-10 days until pest infestation subsides.

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

Nematodes should be applied when soil temperatures are 42° - 95° F.

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.

How Do I Apply Beneficial Nematodes?

DO NOT OPEN PACKAGE UNTIL YOU ARE READY TO APPLY

Beneficial Nematodes are applied to the soil mixed with water. Since they are alive and sensitive to light, apply early in the morning or at dusk. It's easy to apply nematodes.

Before applying, make sure the soil is moist. Mix Beneficial Nematodes with enough water for coverage area.

Apply pre-dawn or at dusk with a hose end sprayer (See sprayer options on page 45), backpack sprayer, pump sprayer or watering can. Lightly water again after application.



Keep area moist for at least 2 weeks. Complete nematode application instructions available online and in the package.

Foliar Applications:

Beneficial Nematodes should be applied to the foliage in higher humidity and plants should be kept moist for 3 or more hours. Spray thoroughly to cover all surfaces of the leaves while avoiding runoff. Reapply weekly. Use in conjuction with soil applications.

How Long Can Beneficial Nematodes Be Kept Before Use?

Beneficial Nematodes should be used as soon as possible. If you need to store them, it is best to store them **unopened** in a refrigerator for no longer than 2 weeks. Once opened, use immediately and entirely.

NemaSeek[™] *Heterorhabditis bacteriophora* (Hb) Beneficial Nematodes

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



NemAttack[™] *Steinernema feltiae* (Sf) Beneficial Nematodes

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



NemAttack[™] S*teinernema carpocapse* (Sc) Beneficial Nematodes

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



NemaSeek[™] *Heterohabditis indica* (Hi) Beneficial Nematodes

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



NemAttack[™] *Steinernema riobrave* (Sr) Beneficial Nematodes

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



NemaSeek™ *Steinernema kraussei* (Sk) Beneficial Nematodes

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



NEMATODE SELECTION CHART – Choose Variety By Pest

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

BENEFICIAL NEMATODES



SINGLE SPECIES					
SKU	Size	Price			
🔺 NemaSee	A NemaSeek Heterorhabditis bacteriophora				
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			
NemAttao	ck Steinernema felti.	ae			
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			
🛑 NemAttao	ck Steinernema carp	ocapsae			
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			
🜟 NemAttao	ck Steinernema riob	rave			
1220410	≈5 million	\$36.00			
🔶 NemaSee	NemaSeek Steinernema kraussei				
1220420	≈5 million	\$36.00			
1220421	≈10 million	\$42.95			
1220422	≈50 million	\$72.00			
1220423	≈250 million	\$198.00			
1220424	≈500 million	\$270.00			
NemaSeek Heterorhabditis indica					
1220200	≈5 million	\$36.00			

Beneficial Nematodes

- = NemaSeek[™] Heterorhabditis bacteriophora (Hb)
- = NemAttack[™] Steinernema feltiae (Sf)
- = NemAttack[™] *Steinernema carpocapsae* (Sc)

СОМВО РАСКЅ			
SKU Size Price			
A Nem	naSeek Hb & NemAttac	k 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	



OMRI Listed Beneficial Nematodes

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

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

- g = NemAttack[™] *Steinernema riobrave* (Sr)
- 🕨 = NemaSeek™ *Steinernema kraussei* (Sk)
- > = NemaSeek[™] Heterohabditis indica (Hi)

TRIPLE THREAT COMBO			
SKU	Size Price		
NemaSeek Hb, NemAttack Sf			
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

Application rates vary based on pest, infestation levels and environment. For specific coverage recommendations, please call **800-827-2847**.

- = NemaSeek[™] Heterorhabditis bacteriophora (Hb)
- = NemAttack[™] Steinernema feltiae (Sf)
 - = NemAttack[™] Steinernema carpocapsae (Sc)



OMRI LISTED SINGLE SPECIES				
SKU	Size Price			
🛑 NemAtta	ck 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	\approx 50 mil. per species	\$225.00		
4007250	≈250 mil. per species	\$630.00		
4007500 ≈500 mil. per species \$880.0		\$880.00		



PEST INSECT TRAPS



Sticky Traps

Monitor & Trap For Best Pest Identification!

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

Aphid/Whitefly Yellow Sticky Traps:

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

SUGGESTED USE: Greenhouses, orchards, row

crops, barns and more. Hang or attach to stake approx.

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

Thrips/Leafminer Blue Sticky Traps:

TARGET: Thrips, leafminers.

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

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

BioCare® Gnat Stix

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

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

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

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

1280501	Gnat Stix - 12 Per Pack
1280502	Gnat Stix - 12 Per Pack - Bundle of 2
1280503	Gnat Stix - 12 Per Pack - Bundle of 4

ARBICO Organics™ Yellow Insect Traps

Monitoring + Trapping = Effective Pest Control

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

DESCRIPTION: ARBICO Organics Yellow Insect Traps are 5" x 7" gridded, 2-sided adhesive traps for a wide range of crawling and flying insect pests. Insects are drawn in by the bright color and are caught on the glue. Once they are trapped, the



gridded surface makes it easy to count just how many have landed. Having the insects immobilized on the trap also makes it easy to identify them. There is a very low risk to beneficials, but some may become caught by accident.

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

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

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

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



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

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





GNAT

TIX

SAFE, EFFECTIV

\$6.65 \$11.50 \$20.50

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	Yellow Stiky Tape - 2" wide x 530' long	\$44.00	
1259611	Yellow Stiky Tape - 6" wide x 530' long	\$90.00	
1259612	Yellow Stiky Tape - 10" wide x 530' long	\$125.00	
1259613	Yellow Stiky Tape - 12" wide x 530' long	\$175.00	
*Larger quantities available			

*Larger quantities available.

Pest Wizard Blue-Yellow Card Trap

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

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

DESCRIPTION: Blue on one side, yellow on the other. These dual-duty traps will capture an array of pests using specific color wavelengths and MessyLess[™] non-toxic adhesive that won't stick to your fingers. Each pack contains 4

rectangular traps, 8 hangers and instructions. Traps are weather resistant and measure 8" x 3.5".

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

- For Monitoring: ≈1 trap/1,000 sq. ft.
- For Trapping: $\approx 1 \text{ trap}/20-50 \text{ sq. ft.}$

1254201	Blue & Yellow Card Trap - 4 Pack	\$8.99
1254202	Blue & Yellow Card Trap - 10 Pack	\$16.00

ARBICO Organics[™] Blue Insect Traps

Add Blue To Your Pest Control Arsenal & Cover All Your Bases.

TARGET: Thrips, leafminers.

DESCRIPTION: ARBICO Organics Blue Pest Traps are 5" x 7" gridded adhesive traps that are the perfect shade of blue to make them irresistible to Thrips and Leafminers. The color lures them in and the sticky surface holds them tight. These traps have adhesive on both sides to grab insects no matter which direction they're coming from. If you are monitoring,



the gridded surface and bright color allow for easy identification and counting. When used in conjunction with the ARBICO Organics Yellow Sticky Traps, you will have the right colors to attract most common insect pests. 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 anchored to a stake (not included). If hung, traps should be slightly above the plant canopy. Avoid hanging too close to sprinklers.

- For trapping in the greenhouse or garden, use roughly one trap per 25-50 sq. ft.
- For monitoring in a greenhouse, use roughly one trap per 25-50 sq. ft.
- For field crop monitoring, 1 trap per 10,000 sq. ft. or as needed.

1254551	ARBICO Organics Blue Insect Traps - 5 Pack	\$4.25
1254552	ARBICO Organics Blue Insect Traps - 10 Pack	\$8.00
1254553	ARBICO Organics Blue Insect Traps - 25 Pack	\$18.75
1254554	ARBICO Organics Blue Insect Traps - 50 Pack	\$35.00
1254560	ARBICO Organics Blue Insect Traps - 100 Pack	\$65.00

Blue Sticky Strips

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

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

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

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

1254401	Blue Sticky Traps - 10 Pack	\$9.50
1254402	Blue Sticky Traps - 10 Pack (Bundle of 5)	\$45.00



PEST INSECT TRAPS

Pest Wizard Green Sticky Traps

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

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

DESCRIPTION: This particular shade of green is an especially effective attractant for aphids, thrips and hoppers on peas, beans and citrus. Some beetles and grasshoppers will also be drawn to these traps. Each 3" x 5" trap has a 1" grid pattern printed on

both sides. The MessyLess[™] adhesive on these traps will grip insects firmly but will not stick to your hands and can be washed off with simple soap and water. These durable traps can stand up to the weather outside and are equally effective inside homes or greenhouses. Package contains four (4) 3″ x 5″ traps, 4 hangers and instructions.

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

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

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

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

DESCRIPTION: This assortment of UV and weather-resistant rectangular sticky traps offers a variety of sizes and colors to address almost any common garden pest problem or area. This selection contains one each of the Large Yellow (5½" x 8"), medium-sized (3.5" x 8") Blue/Yellow, smallish Mini Yellow (3.25" x 5") and small

(3" x 5") Green Traps. These traps can be used alone or with an added attractant (such as an essential oil) or lure. They are especially effective when used with a pheromone lure to target specific pests. Each unique color has been shown to attract specific insects, with some insects being very particular color-wise and others liking all the colors. Each gridded trap is coated with Messyless Adhesive[™], which reacts with light in a very specific way to increase your capture rate and to keep insects firmly caught.

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

 1254230
 Assorted Sticky Traps - 4 Pack
 \$7.99





Asian Citrus Psyllid (ACP) Detector

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

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

BioCare® Apple Maggot Trap W/Lures

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

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

BioCare® Codling Moth Trap

Detect & Trap Codling Moths.

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

Monterey Citrus Leafminer Trap & Lure

Monitor 8	Trap	Damaging	Leafminer	Species!
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1555638Monterey Citrus Leafminer Trap & Lure - Pack of 2\$16.99

Monterey Peach Tree Borer Trap

An Easy To Install Pheromone Trap Designed To Attract Borers.

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

See page 21 for moth traps & pheromone lures.



SLUG & SNAIL CONTROL



Sluggo®

Wipes Out Slugs & Snails!

TARGET: Snails and slugs.

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



OMRI

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

1271109	Sluggo 2.5 lb. Jug	\$15.75		
1271108	Sluggo 10 lb. Bottle	\$58.49		
1271104	Sluggo 40 lb. Bag	\$138.95		
Larger quantities available.				

Sluggo[®] Plus

Save Your Plants From Slugs!

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

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



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

1271114	Sluggo Plus 2.5 lb. Jug	\$22.75
1271116	Sluggo Plus 10 lb. Jug	\$66.50

Snailer Snail & Slug Trap

One Way In & No Way Out For Snails!

TARGET: Snails, slugs, earwigs & sowbugs.



DESCRIPTION: The special design of this trap will last for years and keeps water and debris

out but entices destructive snails and slugs in. You can be comfortable using this trap around children and pets – its bait is chemical-free and natural. Each bait lasts for approximately 30 days. Trap comes with one bait, measuring spoon and instructions.

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

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

Slug Gone

Innovative & Sustainable Slug Control Using Waste Wool.

TARGET: Slugs and snails.

DESCRIPTION: This ingenious product comes to us from the UK, where they know a thing or two about slugs and wool. As it turns out, Gastropods can't tolerate wool. It draws moisture from their foot as they move across it and the scratchiness of the hooks and barbs in the wool fibers is extremely irritating to them. Faced with crossing this sort of barrier, slugs and snails will



happily move on without being harmed. Produced from 100% waste wool (the bits of wool that are left over after a sheep has been sheared), this product is biodegradable, helps save water, keeps roots cool, acts as a soil conditioner as it biodegrades, and will not harm children, pets or edibles. This inventive way to use wool that would otherwise be discarded has been highly acclaimed in Britain and has won many green industry awards there.

SUGGESTED USE: Apply once per season in a 4-5" wide band around base of plant, about 1/2" deep. Ensure there are no gaps. Water well. The wool will absorb the water and swell up to form a felted mat that will not wash out or blow away. Material will biodegrade in place in about 6-14 months. Can be used in containers, flower beds, gardens and hanging baskets. One 3.5 liter bag should cover 6-15 pots depending on diameter.

1272020	Slug Gone - 3.5 Liter Bag	\$16.99
1272025	Slug Gone - 3.5 Liter Bag - Case of 6	\$84.00

CATERPILLAR CONTROL

EGG CONTROL

Moth Egg Parasites -Trichogramma spp.



Prevent Worm Pest Damage On Crops!

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



DESCRIPTION: Trichogramma spp. lay their eggs in the

pest eggs, killing them. Adults emerge 2-3 days after release. They live 7-75 days depending on temperature and moisture. *Trichogramma* are shipped in the parasitized host egg. Each tab has been inoculated with \approx 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
Trichogramma brassicae - European cabbage butterfly, cutworm, corn earworm, European corn borer, cabbage looper, armyworm		
1131910	3 Tabs	\$15.00
1131903	6 Tabs	\$20.00
1131911	1 Card (30 Tabs)	\$30.00
1131912	5-9 Cards	\$28.00 Per Card
1131913	10+ Cards	\$25.00 Per Card
Trichogramma I	minutum - trees, bogs, more commo	n on the East Coast
1129001	3 Tabs	\$15.00
1129003	6 Tabs	\$20.00
1129010	1 Card (30 Tabs)	\$30.00
1129025	5-9 Cards	\$28.00 Per Card
1129030	10+ Cards	\$25.00 Per Card
Trichogramma platneri - orchards, more common West of the Rockies		
1130001	3 Tabs	\$15.00
1130003	6 Tabs	\$20.00
1130030	1 Card (30 Tabs)	\$30.00
1130035	5-9 Cards	\$28.00 Per Card
1130040	10+ Cards	\$25.00 Per Card
Trich	ogramma pretiosum - row crops, v	inyards
1131021	3 Tabs	\$15.00
1131003	6 Tabs	\$20.00
1131022	1 Card (30 Tabs)	\$30.00
1131023	5-9 Cards	\$28.00 per card
1131024	10+ Cards	\$25.00 per card

CATERPILLAR CONTROL

BONIDE® Thuricide Liquid Concentrate

Bacillus thuringiensis var. kurstaki

TARGET: Control of caterpillars.

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



SUGGESTED USE: Easy-to-use for all spray applications, just mix 1-4 tsp. per gallon of water and apply to plants. It

is important to target the underside and top of leaves to ensure good coverage. The mix rate you use is dependent on the level of infestation – there is no harm to the plant if you use a stronger mix rate.

1201201	BONIDE Thuricide Liquid Concentrate - 8 oz.	\$10.97
1201202	BONIDE Thuricide Liquid Concentrate - 16 oz.	\$18.00

Monterey Garden Insect Spray



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

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

DESCRIPTION: This OMRI listed spray is made with Spinosad and is specially formulated for use in home environments such as gardens, lawns, ornamentals, shrubs, trees and non-commercial greenhouses. Not for use on plants being grown for sale or other commercial use, for

commercial seed production or for research purposes. The Spinosad in this spray works on insects' nervous systems, causing paralysis and death within 1-2 days. Because the insects are paralyzed, they may remain stuck on the plants and be mistaken for live insects; we recommend you check your plants 2-3 days after spraying to re-evaluate your control.

SUGGESTED USE:

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

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

1257900	Monterey Garden Insect Spray Conc 1 Pint	\$16.99
1257905	Monterey Garden Insect Spray Conc 1 Quart	\$27.00
1257910	Monterey Garden Insect Spray Conc 1 Gallon	\$90.00
Connet he shipped to the following states: DC		

Cannot be shipped to the following states: DC



CATERPILLAR CONTROL

CATERPILLAR CONTROL

Monterey B.t.

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

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

DESCRIPTION: This biological insecticide

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

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

1201210	Monterey B.t. Concentrate - 1 Pint	\$12.50
1201211	Monterey B.t. Concentrate - 1 Quart	\$19.75
1201212	Monterey B.t. Concentrate - 1 Gallon	\$70.00
Connot he chin	ned to the following states: ND WV	

Cannot be shipped to the following states: ND, WY

DiPel[®] DF

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

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

DESCRIPTION: This dust-free, flowable powder bioinsecticide works quickly; pests will stop feeding within the hour and die in a few hours to 3 days. It is

best used when the larvae are actively feeding but before the plants are heavily damaged. People, beneficials, birds, fish and wildlife are not affected by DiPel.

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

1207006	DiPel DF - 1 lb.	\$24.75
1207004	DiPel DF - 5 lbs.	\$119.50



OMR



ADULT MOTH CONTROL

For best results, position traps prior to infestation. See full selection of pheromone lures online.

Large Plastic Delta Trap

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

1230435	Large Plastic Delta Trap - Pack of 5	\$35.00
1230436	Large Plastic Delta Trap - Pack of 10	\$66.50

Scentry Wing Trap

You'll Get Options & Economy With This Trap!

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

Delta Trap

Catch Those Pe	sts With Ease!	
1230426	Delta Trap - Pack of 10	\$21.50

Gypsy Moth Trap

Moth Pests Disappear With This "Milk Carton" Trap!		
1230430	Gypsy Moth Trap - Pack of 5	\$10.45
1230431	Gypsy Moth Trap - Pack of 10	\$18.99

Lures By Pest

Common Name Armyworm Cabbage Looper	Scientific Name <i>Pseudaletia unipuncta</i> <i>Trichoplusia ni</i>	Wing/Delta/LPD/GM W, D, LPD W, LPD
European Corn Borers:		
Iowa Strain	Ostrinia nubilalis	W
New York Strain	Ostrinia nubilalis	W
Fall Armyworm	Spodoptera frujiperda	W
Gypsy Moth	Lymantria dispar	D, GM
Southern Armyworm	Spodoptera eridania	W, LPD

See full selection of pheromone lures online. Call for volume prices.



OMD

JAPANESE BEETLE CONTROL

BIOLOGICAL GRUB CONTROL

NemaSeek[™] Hb **Beneficial** Nematodes



Beneficial Nematodes are one of nature's most powerful weapons available for managing Japanese Beetle infestations. Along with parasitizing the beetles in their larval, underground damaging stages,

they also parasitize the larval states of other pest grubs, weevils, fleas, leafminers and more. Apply with a watering can, hose end sprayer or backpack sprayer. See pages 13-15 for more information.

Milky Spore Powder

Specific, Long Lasting Larval Control.

TARGET: Japanese beetle grubs.

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

In warmer climates, control can occur in 1-3 years (after one application) and in cooler climates, 3-5 years. Can apply with other fertilizers, will not harm animals and can be applied to food crops. For best results, apply with NemaSeek Hb Beneficial Nematodes (see pages 18-19), which will aid in spreading the bacterium to grubs. Store in a cool dry place to maintain shelf life.

SUGGESTED USE: Use All-Purpose Dispenser Tube for easy application (see below). 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 $\approx 1/4$ acre, 50 lbs. covers ≈ 4.5 acres.

1216001	Milky Spore Powder - 10 oz Covers ≈2,500 sq. ft.	\$28.60	
1216040	Milky Spore Powder - 40 oz Covers $\approx 1/4$ acre	\$83.50	
1216050	Milky Spore Powder - 50 lb. Drum* - Covers \approx 4.5 acres	CALL	
1216052	All-Purpose Dispenser Tube	\$14.50	
*Call for freight quote.			
Cannot be chinned to the following states: OR WA			

Cannot be shipped to the following states: OR, WA



MAY JUN ALIG

Where Are Japaneese Beetles i Found?

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

Milky Spore Granular

A New Formulation For Use In A Drop

TARGET: Japanese beetle grubs.

DESCRIPTION: Contains spores of the bacteria Bacillus popilliae, which work specifically against the grub stage of the Japanese beetle. Once Milky Spore is in the soil, grubs will ingest the bacterium as they feed on roots. The spores will then multiply inside the grub, leading to its death in 1-3 weeks. As the grub decomposes it will release the spores



in their increased numbers back into the soil. Will not harm people, animals, plants or beneficial insects.

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

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

Cannot be shipped to the following states: OR, WA

Spreader.

Milky Sp

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MOSQUITO & FUNGUS GNAT CONTROL

BIOLOGICAL CONTROL

Mosquito Bits®

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

TARGET: Mosquitoes and fungus gnats.

DESCRIPTION: Mosquito Bits uses the biological larvicide *Bacillus thuringiensis v. israelensis* (Bti) to quickly kill mosquito larvae in a wide range of habitats. When spread uniformly over the surface of water, the Bti will float down into the water where the larvae will consume it and die; usually within 24 hours. Bits are not harmful to people, animals or plants. Repeat after a 7-10 day interval.



MOSQUITODUNKS

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. (1/2 lb. per 2178 sq. ft.) over the surface of containerized standing water. This includes bird baths, water troughs, unused swimming pools, old automobile tires, water gardens, rain barrels and more. DO NOT APPLY to finished human drinking water sources.

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

Mosquito Dunks®

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

TARGET: Mosquitoes.

DESCRIPTION: When placed in standing water, Mosquito Dunks will float on the water and they will slowly release the bacteria *Bacillus thuringiensis v. israelensis* (Bti) as they melt. This bacterium is a potent mosquito larvicide and as it disperses into the water it is eaten by, and kills, the mosquito larvae growing there. Dunks can be anchored with a string to keep them from washing away. They can also alternate between being wet and dry without losing

effectiveness. Bti targets specific pests and is not harmful to people, animals or plants. Each dunk is effective for 30 days.

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

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

AQUABAC[®] 200G Granular Bti Mosquito Control



Use This Bti Larvicide Wherever You Have Mosquitoes Breeding

TARGET: Larval stages of mosquitoes and black flies.

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



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

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

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

AQUABAC® Xt



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

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

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



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

1211160	AQUABAC Xt - 2.5 Gallons*	\$190.00
1211161	AQUABAC Xt - 2.5 Gallons/Case of 2*	\$340.00
*Free Shipping ir	n the contiguous 48 states. Ships via Ground ONLY.	
Cannot be shipp	ed to the following states: NY	

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 and is colorless, tasteless and odorless. 4-hour re-entry interval; no pre-harvest interval.

SUGGESTED USE: For gardens, apply approx. 3 Tbsp./gal. water with a sprayer. For larger areas, apply about 1-2 gal./100 gal. water and use 25-150 gal. of dilute/acre depending on crop, timing and desired treatment. Apply weekly or bi-weekly depending on severity of condition. Begin at the onset of plant growth, fungus emergence, disease and insect infestation. See label online for detailed rates and instructions.

1274107	Organic JMS Stylet-Oil - 1 Gallon	\$36.00
1274108	Organic JMS Stylet-Oil - 2.5 Gallons	\$51.00
* ~ !! (! .	A 1 1 1 1 1 1	

*Call for freight quote. Larger sizes available. Cannot be shipped to the following states: AR, DC, IL, IN, IA, KS, KY, LA, MN, MS, MT, PR, RI, SD, TN, UT, WV, WI, WY (15 and 30 gallon drum sizes not available to OR)

SuffOil-X®

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

TARGET: Aphids, cankerworms, leafhoppers, leafrollers, mealybugs, mites, plant bugs, psyllids, soft scales, webworms, whiteflies, rust and powdery mildew.

DESCRIPTION: Made with refined pre-emulsified mineral oil, this suffocant creates the best coverage with limited risk of plant damage. Using a preemulsified creates a lighter oil that dries faster, will not cause photoxicity, 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. Apply when oil will dry and evaporate in 1-2 hours and when relative humidity is less than 90%. Application rates are generally 1-2 gallons of SuffOil-X per 100 gallons of water or 20-500 gallons of spray solution per acre.

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

Larger sizes available.

Shipping Restrictions: Cannot ship via US Mail or air shipping methods. Cannot be shipped to the following states: AK, DC

Summerset[®] AllGuard[™]

This Spray Repels Lots Of Insects -& The Rain!

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

DESCRIPTION: This highly concentrated repellent uses Garlic Juice to fend off insects and keep them away. The natural sulphurs in Garlic Juice are repugnant to the insects that plague plants and trees. There will be a garlic odor when sprayed, but the smell will dissipate in about 30 minutes. Use it on most anything you grow; it won't leave a garlic taste on your crops. SummerSet AllGuard is blended



with a rain-resistant additive that will keep the product on the plants and trees. There is no need to use additional adjuvants, stickers or surfactants.

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

1452610	Summerst AllGuard - 1 Quart	\$24.95
1452611	Summerset AllGuard - 1 Quart - Case of 6	\$125.00

ECOWORKS EC®



An Organic 4-in-1 Pesticide, Nematicide, Fungicide and Miticide.

TARGET: Aphids, flies, mealybugs, psyllids, scales, spider mites, thrips, whiteflies, powdery & downey mildews, rust, botrytis and more.

DESCRIPTION: Derived from 100% cold-pressed neem oil, ECOWORKS EC contains Azadiractins, neem limoniods, fatty acids, esters and synergistic inerts for top-notch bioactivity. Effective against a wide range of biting and sucking insects, soil-borne pests, and several devastating fungal diseases, this

ECOWORKS EC

is also an exceptional fly repellent. Can be applied as a foliar spray, soil drench,

in soil-less media or in recirculating systems. This residue-free formulation is EPA registered, UV stabilized to reduce risk of crop burn and has a 0-day PHI. Can be used with beneficial insects.

SUGGESTED USE: Foliar Application - 2 tsp. (10 mL)/gal. water for disease and pest control. 2-3 treatments required for optimal results. For severe infestations, spray every 5-7 days. For preventative purposes, spray every 7-10 days. Soil Drench or Recirculating System Applications - Apply 1 pint (16 oz.)/ gal. water once every 7-14 days at a mixing rate of 2-8 mL/gal.

1450551	EcoWorks EC - 4 oz.	\$9.79
1450553	EcoWorks EC - 16 oz.	\$25.99
1450554	EcoWorks EC - 32 oz.	\$43.99
Cannot be shipped to t	the following states: AK,ME,MD,MA,VA	





OMRI









HUMA GRO® Proud 3®

This Fast-Acting Foliar Spray Tackles The Big Name Pests & Diseases.

TARGET: Soft-bodied insects like aphids, thrips, whiteflies, mites and leafhoppers. Plant diseases like Botrytis Gray Mold, Powdery Mildew and Phytophthora Late Blight.

DESCRIPTION: This organic, oil-based insecticide and fungicide kills on contact all life stages of soft-bodied insects and the spores that cause many of the most persistent fungal diseases. It can also light up the resistance mechanism in plants to keep

future spores from developing. 0-hour REI (Restricted Entry Interval) and 0-day pre-harvest interval (PHI).

SUGGESTED USE: Ensure complete coverage on all plant parts for optimum effectiveness. Use volume of water necessary for uniform and 360° spray coverage of foliage without running off. Application rates vary from 1 pt-1qt in 15-25 gals/acre to 4-8 qts in 100-2000 gals/acre, depending on level of infestation. Repeat every 5-7 days until control level is met.

1458360	HUMA GRO Proud 3 - 1 Liter Conc.	\$49.99
1458361	HUMA GRO Proud 3 - 1 Gallon Conc.	\$110.99
Cannot be shippe	d to the following states: AK, ME, SD	
Larger sizes availa	ıble.	

SNS-217[™] and SNS-217C[™]

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

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

DESCRIPTION: Using food grade rosemary extracts and oils, these products will kill adult spider mites and prevent their eggs from hatching. The natural salts and fatty acids derived from the rosemary disrupt the insect cell structure and the permeability of its membranes; this will quickly cause the insect to dehydrate and die. Additionally, once eggs are coated with the

oily liquid, their respiration will be blocked and they will perish without hatching. The plant will absorb some of the components of these products, which will then form a barrier to any additional mites that may try to feed on it.

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

1459120	SNS-217 RTU - 1 Quart	\$24.99
1459121	SNS-217 RTU - 1 Gallon	\$90.00
1459122	SNS-217C Concentrate - 1 Pint	\$68.10
1459123	SNS-217C Concentrate - 1 Gallon	\$294.64





PureCrop1

Plant-Based Biostimulant, Insecticide & Fungicide.

TARGET: All sap sucking insects (mites, thrips, aphids, whiteflies, leaf hoppers), mold, mildew and diseases (botrytis, fusarium wilt, powdery mildew and more).

DESCRIPTION: PureCrop1 uses advanced biochemistry to eliminate pests, mold and mildew, while increasing plant health. Although it's active ingredients are corn and soybean oil, it is in fact NOT an oil. Through the use of Nanotechnology, it is a rearrangement of molecules to create a colloidal micelle. Due to its small size and electrical properties, PureCrop1 is a natural surfactant, carrier of nutrients



and increases sugar levels. When applied as a foliar spray or root drench, it leaves no residue behind and tests clean parts per billion. This product can be used on all stages of growth even up to day of harvest.

SUGGESTED USE: As a preventative foliar spray 1 oz. per gallon every 7-10 days. For knock down foliar spray 2 oz. per gallon every 2-3 days until desired results. To maintain long term biostimulant benefits spray 2 oz. per gallon once a week. As a root drench or general surfactant spray 1.24 oz. per gallon of water.

1274200	PureCrop1 - 16 oz.	\$45.00
1274201	PureCrop1 - 1/2 Gallon	\$120.00
1274202	PureCrop1 - 1 Gallon	\$225.00
1274203	PureCrop1 - 2.5 Gallons	\$552.00

Grandevo® & Grandevo® WDG

Products available OMERIC

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

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

DESCRIPTION: Grandevo uses the bacterium *Chromobacterium subtsugae* strain PRAA4-1^T to

provide long-lasting, reliable broad spectrum control of a long list of labeled pests. Its mode of action is multi-faceted; it is toxic when ingested, it repels and it reduces insect reproduction. This OMRI listed and NOP compliant organic pesticide/miticide can be a valuable part of any IPM program. Can be used on a wide range of edible crops in field and greenhouse applications.

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

1332950	Grandevo - 5 lbs.	\$112.00
1332952	Grandevo WDG - 6 lbs.	\$155.00
Grandovo - 5 lbs (122	2050) cannot be chinned to the following st	ator: CA

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



BEAUVARIA BASSIANA

BioCeres[®] WP

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

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

DESCRIPTION: This OMRI Listed biopesticide uses the power of *Beauveria bassiana* to control insects in developing and adult stages. Upon application, the spores will adhere to and begin penetrating the insect's outer shell. Once inside the insect, the

spores will continue to multiple until they reach its hemolyph (blood). When the spores encounter the blood they will begin feeding on it. Death will occur in 7 to 14 days. 0 pre-harvest interval and 4-hour REI.

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

1332890 BioCeres WP - 1 lb. Bag 1332892 BioCeres WP - Case of 1 lb. Bags/12 ct. Cannot be shipped to the following states: CA



A New Formulation For A Reliable Favorite!

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

DESCRIPTION: Mycotrol WPO is a wettable powder mycoinsecticide that contains live spores of the naturally occurring fungus, Beauveria bassiana. In fact, this formulation contains the highest concentration of any insecticide containing Beauveria. These spores adhere to the host insect and use enzymes to attack and ultimately dissolve the cuticle

that surrounds and contains the body cavity. This fungal penetration will ultimately kill the unwanted insects but will not harm beneficials.

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

1332785	Mycotrol WPO - 1 lb.	\$100.00
1332795	Mycotrol WPO - 1 lb. (Case of 12)	\$1,070.00
Ships via UPS Grour	nd & FedEx Ground ONLY.	

BioCeres WP

\$80.00

Mycotrol® WPO

\$880.00

Beauveria bassiana

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

BotaniGard® ES & 22WP Beauveria bassiana Strain GHA

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

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

a natural contact insecticide that contains a liquid emulsified suspension of the mycoinsecticide - Beauveria bassiana

Strain GHA, which controls many varieties of soft-bodied insects in greenhouse, field and nursery crops.

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

Application Rates of BotaniGard ES

- For whiteflies and aphids, use about .5-1 quarts per 100 gallons of water.
- For thrips, use about 1-2 quarts per 100 gallons of water.
- For other insects, use about .5-2 guarts per 100 gallons of water.
- gallons of water to cover an area of 5,000-20,000 sq. ft.
- For whiteflies and aphids, use .5-1 lb. of BotaniGard 22WP per 100 gallons of water.
- For thrips, use 1-2 lbs. of BotaniGard 22WP per 100 gallons of water.
- For other labeled insects, use .5 to 2 lbs. of BotaniGard 22WP per 100 gallons of water.
- Rate depends upon infestation level, consult package instructions before application.

BotaniGard ES

1332801	BotaniGard ES - 1 Quart	\$84.00
1332799	BotaniGard ES - 1 Gallon	\$260.00
BotaniGard 22W	P	
1332800	BotaniGard 22WP - 1 lb. Powder	\$88.00
Case sizes available.		

Shipping Restrictions: Cannot ship via US Mail.

DESCRIPTION: BotaniGard ES is

• If applying as a high or low volume spray, use up to 3 quarts per 100 **Application Rates of BotaniGard 22WP**





PYRETHRINS

PyGanic® Gardening

Rapid Knockdown & Kill For Outdoor Pests In Your Garden.

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

DESCRIPTION: This updated version of PyGanic offers the same ingredients and results as the former PyGanic 1.4. Pyrethrins, the active ingredient here, is made from a daisy extract and has been

used effectively for a millennia. This formulation can be applied in a variety of ways, making it easy to use no matter the size of your garden. Spraying should begin when the insects first appear, not when they are already heavily infested. Thoroughly cover all plant surfaces. This OMRI listed, NOP compliant insecticide can be used throughout your growing season and up to the day of harvest.

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

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

BotaniGard® MAXX

Beauveria bassiana & Pyrethrins Make A Powerful Team!

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

DESCRIPTION: This potent biorational formulation provides a quick knock-down of insect and mite pests. The two active ingredients, *Beauveria bassiana* and Pyrethrins, work independently, yet in harmony, to provide multiple mechanisms to kill harmful insects. The pyrethrins

will attack the nerve cells of the insect and the *Beauveria*

bassiana strain GHA fungal spores penetrate an insect's protective cuticle and destroy it from within.

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

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

Shipping Restrictions: Cannot ship via US Mail.

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 gardening pesticide couples two plant-based 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 soft on the environment and can be applied the same day of harvest.

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

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

Monterey Take Down Garden Spray

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

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

DESCRIPTION: This spray works on a broad spectrum of insect pests and will attack ALL stages of insect life – eggs, larvae & adults. With canola oil and pyrethrin as active ingredients, you have a spray that will knock them down and hold them down.

Can be used as a dormant or growing season spray and does not persist in the environment. Safe to use up to the day of harvest.

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

1257915	Take Down Garden Spray Concentrate - 1 Pint	\$15.25
1257917	Take Down Garden Spray RTU - 1 Quart	\$10.98
Concentrate cannot be shipped to the following states: DC, ND, SD, WY		
RTU cannot be shipped to the following states: DC, FL, ND, OK, SD, WY		



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 diseasecarrying adult flies. Scientifically they are referred to as Fly Parasites or Fly Parasitoids.



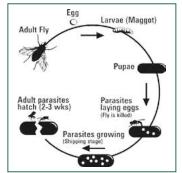
Fly Eliminators will only parasitize fly pupae and will not bother horses, cattle, livestock, pets, plants, or you.

Adult Fly Eliminator emerging from fly pupa.

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
- Race Tracks

• Feed Lots

- PoultryKennels
- ZoosPlus more

Equestrian Hobbyists

Urban Farmers

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.
- 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.
- 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.

FLY ELIMINATORS

i 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

 \checkmark The more Fly Eliminators, the fewer the flies

RIGHT Schedule

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

Churchill Downs Chooses ARBICO Organics

"We started using Fly Eliminators back in 1983. We are still using them today. It's a wonderful product and a successful program that everyone should use! All the



CHURCHILL DOWNS

big corporations are going green and we were one of the first to go green by using Fly Eliminators."

- Butch Lehr, Former Track Manager of Churchill Downs

Del Mar Thoroughbred Club Relies On ARBICO Organics

"The Del Mar Thoroughbred Club horse racing facility has been using Fly Eliminators from ARBICO since 1985 with great success. Each summer nearly 2,000 horses and hundreds of thousands of race goers



converge on this community making fly control a top priority for both the Del Mar Thoroughbred Club and the community that relies so heavily on the agricultural product we promote. We appreciate the years of timely and professional service ARBICO Organics has provided and look forward to many more good years ahead. "

- Joe Harper, Chief Executive Officer of Del Mar

VIP SPECIAL PRICING

LOCK IN THE LOWEST PRICES FOR 2020 PROGRAMS! Sign Up NOW & Pay LATER!

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

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

Order Your Fly Control Program Today! *VIP Pricing Valid Through Dec. 31, 2019.

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

****USPS** shipping included up to 5 units.

Call 1-800-827-2847 or visit <u>www.arbico-organics.com</u>

These are units of measurement, not warranties or guarantees of performance. The total seasonal cost of Fly Eliminators depends on the recommended number of shipments which may be different than what competitors may recommend. We recommend releasing a shipment every 2-4 weeks throughout the fly season, but releases ranging from 1-6 weeks are not uncommon. Customer experiences may vary. The quantity required and frequency of application can differ according to region, size and condition of property or stables, severity of fly problem, neighbors, manure management, number of animals and start date of program. All warranties, express or implied are disclaimed. One unit bag shown. © 2019 Arizona Biological Control, Inc.

MANURE & ODOR CONTROL

BIOLOGICAL MAGGOT CONTROL

Sc Beneficial Nematodes

Add Beneficial Nematodes For **Ultimate Fly Control!**

TARGET: Fly maggots and other subterranean pests.

DESCRIPTION: These live microscopic organisms (non-segmented round worms) occur naturally in soil throughout the world and are

parasitic to fly maggots and other subterranean pests. Upon application, they will seek out and enter maggots through body openings. Once inside, the nematode releases bacteria which kill the host maggot within 24 - 48 hours. The bacteria create a food source for the nematodes to reproduce. As the food resources within the dead pest become scarce, the nematodes exit and immediately begin searching for a new host.

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

1220319 1220320	NemAttack Sc Beneficial Nematodes - ≈5 million NemAttack Sc Beneficial Nematodes - ≈10 million	\$36.00 \$42.95
1220321	NemAttack Sc Beneficial Nematodes - \approx 50 million	\$72.00
1221702	NemAttack Sc Beneficial Nematodes - \approx 250 million	\$198.00
1221705	NemAttack Sc Beneficial Nematodes - \approx 500 million	\$270.00
*See page 15	for free shipping details.	

MANURE MANAGEMENT

EM•1[®] Microbial Inoculant

Faster Breakdown Of Organic Matter.

TARGET: Accelerate decomposition & reduce odors.

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



OMRI

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

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

Call for larger sizes.

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

SCD Probiotics Barn Kleaner Great For Manure Odor &

Decomposition!

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

DESCRIPTION: Animal manures can

contain harmful organisms, emit unpleasant odors and serve as natural breeding grounds for flies and other pesky insects.



Composed from fourteen different species of beneficial microorganisms, this product can be used around animals to help clean areas where manure is present and can help accelerate the decomposition of manure. Use this product as part of a fly control program to stop adult flies from having a place to lay eggs and support new generations.

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

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

Case sizes available.

Revenge® Fly Beater® & Odor Reducer



Rid Yourself Of Flying & Biting Pests Plus Deodorize The Treated Area While You're At It.

TARGET: All flies, gnats, fleas, mosquitoes and ticks.

DESCRIPTION: This product uses a potent blend of Cedar, Citronella and Clove oils in a granular formula to efficiently repel a long list of common biting and blood-sucking pests. As an added bonus, the fragrant oils will leave a pleasant scent in even the smelliest of areas. Apply to animals' bedding to mask the animal smell and



prevent flies from scent-tracking them. This 1.3 lb. container treats over 2,000 sq. ft. or 20 - 10 x 10 stalls.

SUGGESTED USE: These granules are ready to use; no mixing, no water. Broadcast from container or with a lawn spreader at a rate of 10 oz/1,000 sq ft. Initial treatments and severe infestations may require heavier applications. One treatment may be effective for up to two weeks. Temperature, moisture level and wind may affect effectiveness. For horse stalls: 1 oz/10 x 10 sq ft stall. Reapply after stall clean outs, if necessary. For around home pool, patio and porch areas: 10 oz/1,000 sq ft to treat twice the area to be occupied. Not for aquatic or food use. Do not apply directly to water.

1202780 Fly Beater & Odor Reducer - 1.3 lbs. Granules \$13.99 Cannot be shipped to the following states: IN, MN, NM





ADULT FLY CONTROL

ADULT FLY TRAPS & REPELLENTS

Biting Fly Trap

No Poisons! No Baits! No Electricity!

TARGET: Biting, stable, black and bottle flies.

DESCRIPTION: Biting flies are attracted to sunlight as it shines through a particular type of fiberglass. This trap consists of a cylinder of this type of 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.



SUGGESTED USE: Place anywhere biting flies are a problem. Simply drive included wooden stake into the ground and place the fiberglass cylinder on the stake.

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

Equiderma Horse Spray

This Powerful Spray Has A Light Citrusy Scent.

TARGET: All flies, mosquitoes and gnats. Will also inhibit ticks.

DESCRIPTION: This unique combination of botanical oils, neem and aloe will repel biting and blood-sucking insects, control future insect populations and protect your animal's skin from fungal and bacterial skin diseases. The oils are a powerful repellent; the neem oil has antibacterial, antiviral, anti-inflammatory and antifungal properties and also disrupts the insect life cycles, while the aloe helps protect

the skin and keep the coat nice and shiny. DEET, Pyrethrin and Permethrin free and can be used on horses, ponies, foals, dogs, pigs, cows, llamas, alpacas and chickens.

SUGGESTED USE: For external use only. Dial spray down to its lightest spray; this spray is powerful. Apply sparingly with first application to test your horse's sensitivity to the essential oils contained. Heavy coverage may result in hives. However, this result is rare. If hives appear, cold hose the area thoroughly and re-apply using a lighter spray. If reaction continues, discontinue use.

1107500	Equiderma Horse Spray - 32 oz.	\$23.99
1107501	Equiderma Horse Spray - 1 Gallon	\$84.99



ARBICO Organics[™] Solar Fly Trap

Heavy Duty, Reuseable, Portable & Lightweight Fly Trap!

TARGET: Adult flies.

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

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

1256001	ARBICO Organics Solar Fly Trap - Includes 1 Bait	\$86.00
1256005	ARBICO Organics Solar Fly Trap - Includes 4 Baits	\$108.00
1256002	ARBICO Organics Fly Bait for Solar Fly Trap	\$9.99
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
Replacement p	arts available online.	
	Cuite and an UC Mell ONIV	

*FREE SHIPPING via ground or US Mail ONLY.

Captivator® Fly Trap

A Budget Friendly Fly Trap That's A Real Workhorse.

TARGET: Filth-breeding flies.

DESCRIPTION: This lightweight, yet heavy-duty, 1/2 -gallon (2 qt.) sized trap can stand up to the elements and keep working for months of fly control. Take care to choose a location that is away from where you and your animals want to be as this trap is very smelly and will quickly attract lots of flies. Comes with one 30 gm. water-soluble attractant pouch.

SUGGESTED USE: It only takes 3 easy steps to get things going with this trap: dump attractant in, add water and place outside. Rinse and rebait when it dries out, becomes full of flies, or after 30 days – whichever comes first.

1256051

Captivator Fly Trap





Agribon®

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

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

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

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

* Items in stock!

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

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

AG-15

Lightweight with 90% light transmission, (.45 oz./square yard). Use for pollination control, heat sensitive crops and insect pests on potatoes, greens, cabbages and radishes. Made of spun bonded polypropylene fabric.

SKU	Size	Retail
3000030	9'10" x 50'*	\$27.00
3000031	9'10" x 250'*	\$59.99
3000034	9'10" x 2000'	\$313.00
3000035	19' x 2000'	\$577.00

AG-19 Lightweight (0.55 oz. per sq. yd.), protects to 28°F (provides up to 4°F protection), 85% light transmission. Does not require frames or hoops.

SKU	Size	Retail
3000000	83" x 50'*	\$24.99
3000003	83" x 250'*	\$50.00
3000004	83" x 2000'*	\$290.00
3000041	10' x 50'*	\$29.99
3000042	10' x 250'	\$78.99
3000043	10' x 500'	\$149.00
3000045	14' x 1000'	\$288.00
3000046	20' x 1000'	\$435.00
3000048	30' x 1000'	\$592.00
3000049	35' x 1000'	\$693.00
3000050	40' x 1000'	\$900.00
3000051	45' x 1000'	\$945.00
3000052	50' x 300'	\$305.00
3000053	50' x 500'	\$520.00
3000054	50' x 1000'	\$945.00
3000040	61.5" x 3000'	\$360.00

AG-30

Lightweight (0.9 oz. per sq. yd.), protects to $26^{\circ}F$ to $28^{\circ}F$ (provides between $4^{\circ}F - 6^{\circ}F$ protection), allows 70% light transmission. Hoops or frames are recommended.

SKU	Size	Retail
3000010	83" x 50'*	\$19.99
3000013	83" x 250'*	\$119.00
3000060	10' x 250'	\$115.00
3000062	14' x 800'	\$395.00
3000064	26' x 800'	\$665.00

AG-50

Highest level of protection, weighs in at 1.5 oz. sq. yd., protects to 24°F (provides up to 8°F of protection), allows 50% light transmission. Hoops or frames are recommended.

SKU	Size	Retail
3000020	83" x 50'*	\$29.99
3000026	7' x 7' (5/pack)*	\$29.99
3000090	10' x 500'	\$295.00
3000091	10' x 1500'	\$990.00
3000027	14' x 14' (2/pack)*	\$39.99
3000092	14' x 500'	\$405.00
3000028	26' x 26'*	\$56.99
3000093	26' x 500'	\$665.00
3000096	50' x 300'	\$790.00
3000097	50' x 500'	\$1,440.00



Harvest Guard[™] Protective Covers

Harvest Guard lightweight covers provide protection from frost, snow and harsh winds in fall, winter and early spring. Covers can be used as seed germination blankets and to protect plants from insects, birds or animals.

Visit www.arbico-organics.com for more information.



EM•1[®] Microbial Inoculant

Faster Breakdown Of Organic Matter.

TARGET: Accelerate decomposition & reduce odors.

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

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

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

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

Biojuvant[®] Beny-Gro[™]

These Microorganisms Work Together To Work Better For You.

TARGET: Use to support health, encourage growth and improve yields in all plants grown in all media.

DESCRIPTION: Beny-Gro consists of 7 microorganisms from 3 groups formulated together to create a microbial community that works symbiotically to provide multiple benefits for your plants. Bacillus and Lactobacillus spur root development, balance the microbial environment and

produce organic acids that solubize nutrients. Phototrophic bacteria work in anaerobic and aerobic conditions to convert or degrade organic and inorganic compounds into simple forms. Due to the low pH (3.9) of this product, do not apply undiluted to young, developing plants. Works exceptionally well in hemp production and hydroponic growing.

SUGGESTED USE: No pre-incubation or pre-mixing required. Simply dilute and apply. Potted plants: 1/4 - 1/Tbl/cup of water. Foliar spray: Dilute 1:500 w/water & apply. Hydroponic: 5 mL/gal nutrient solution or water. Seed/Clone treatment: Dilute 1:500 w/water & soak for 15 minutes.

1202751	Biojuvant Beny-Gro Conc 1 Liter	\$19.99
1202752	Biojuvant Beny-Gro Conc 1 Gallon	\$49.99
1202755	Biojuvant Beny-Gro Conc Case of Liters/12 Ct.	\$199.99
1202756	Biojuvant Beny-Gro Conc Case of Gallons/4 Ct.	\$161.99

Inocucor[™] Garden Solution

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

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

DESCRIPTION: This OMRI listed biological soil inoculant serves as a catalyst to stimulate root growth and microbial activity to boost harvest yield and quality. Proven effective, this blend is designed to benefit a wide-selection of high-value crops. It reduces the effects of abiotic stress factors like



OMR

transplanting, drought and soil salt content. In addition to the beneficial microbes, Inocucor Garden Solution contains an optimal blend of enzymes to stimulate microbial colonization in the soil. This ensures development of a healthy and bioactive root zone and boosts overall plant vigor.

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

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

Earth Alive[™] Soil Activator[™]

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

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

DESCRIPTION: This OMRI listed soil inoculant is a patent-pending mix of three naturally occurring soil microorganisms and an all-natural wood extract (a forestry by-product). The beneficial bacteria in Soil Activator solubilize phosphorus and fix atmospheric nitrogen for improved nutrient availability to plants and increased yields. They also



encourage active root growth for robust plants from the root up. Can be used as a dry mix soil or as a soil drench.

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

1202170	Earth Alive Soil Activator, 50 gr. / 1.76 oz.	\$4.99
1202171	Earth Alive Soil Activator, 425 gr. / 15 oz.	\$19.99
1202172	Earth Alive Soil Activator, 1 kg. / 2.2 oz.	\$36.99
Cannot be shipped to the following states: AL, AR, CA, LA, SD, VT, WV, WI		



OMRI

PROPAGATION

Life[™] Cloning Mist

A Quick Spray Takes Propagation Worries Away.

TARGET: For use on stock plants and cuttings to stimulate stress recovery and root growth.

DESCRIPTION: This product mixes anti-stress bioactive molecules and other essential ingredients to bring you an easy-to-use spray for cuttings and stock plants. Using this mist will help increase root development and stimulate stress recovery of cuttings. No mixing needed. Best when used with LIFE Cloning Gel and LIFE Cloning Solution.



\$22.99

SUGGESTED USE: 1) Spray stock plants 1 week before cutting. 2) Take cuttings and place in growing medium. 3) Spray cuttings after planting. 4) Spray cuttings every 2-3 days until transplanted.

3000654

Life Cloning Mist RTU - 12 oz.

Cannot be shipped to the following states: AL, GA, ID, IN, IA, KS, KY, MS, MO, NE, NC, ND, SC, SD, TN, UT, VA, WV, WI, WY

Life[™] Cloning Solution

Helps Reduce The Time To Root From Cuttings.

TARGET: Use to provide nutrient inputs in early root and plant development.

DESCRIPTION: This product provides the nutrient boost needed for strong root growth and successful early plant development. This special blend of minerals and essential carbohydrates can promote energy and stimulate metabolism. It also contains amino acids that improve protein synthesis and can help build strong cell walls that resist stretching during growth. Can be used in all growing media.



SUGGESTED USE: Standard application rate: 0.5 oz./gal. water. Aeroponics: Mix with water and maintain pH at 5.0-5.5.

Add fresh solution to reservoir as needed until ready to transplant. Soil/soilless medium application: Mix with water and adjust pH to 5.5-6.0. Insert cuttings and drench medium to saturation. Reapply 1-2 times a week until ready to transplant.

3000652 \$23.99 Life Cloning Solution Conc. - 1 Quart Cannot be shipped to the following states: AL, GA, ID, IN, IA, KS, KY, MS, MO, NE, NC, ND, SC, SD, TN, UT, VA, WV, WI, WY



Olivia's Cloning Gel®

Seal The Deal On Healthy Plants With This First-Rate Cloning Gel.

TARGET: Use to stimulate root development and prevent transplant shock on all cuttings.

DESCRIPTION: This product is a combination of a root-stimulating plant hormone (Indole-3 butyric acid) from the White Willow



(Salix alba) tree and NPK nutrients formulated into a gel. This viscous gel adheres to cuttings quickly and completely to create a seal that provides direct root stimulation and nutrition to the plant and eliminates transplant shock. Just cut, dip and grow. For hydroponics or soil. Can be used on all plants.

SUGGESTED USE: No mixing required. Ready to use. Dip your cuttings in the Gel to the desired rooting depth. Coat entire stem area that is going to be below the soil or medium line. Place in our soil or any growing medium to root.

2000800	Olivia's Cloning Gel - 2 oz.	\$14.95
2000801	Olivia's Cloning Gel - 4 oz.	\$21.95
2000802	Olivia's Cloning Gel - 8 oz.	\$36.95
2000802	Olivia's Cloning Gel - Case of 2 oz./24 Ct.	\$250.95
2000802	Olivia's Cloning Gel - Case of 4 oz./24 Ct.	\$345.95
2000802	Olivia's Cloning Gel - Case of 8 oz./12 Ct.	\$320.95

Cannot be shipped to the following states: OR



Olivia's Cloning Solution®

Give Your Plants Just What They Need As They Grow.

TARGET: Use in propagation to promote rapid and robust root development and growth.

DESCRIPTION: This concentrated liquid contains a root stimulating plant hormone derived from the White Willow (Salix alba) tree, Indole-3 butyric acid, and NPK nutrients. These ingredients provide new cuttings what they need for a spectacular start and continued robust growth. Can be used daily to root

and feed and to keep the medium moist. For hydroponics or soil and with root cubes and cloning machines. Can be used on all plants.

SUGGESTED USE: Mix 6 oz. (3/4 cup)/gal. of water. Take your cuttings/clones/ slips and immediately place in mixture or cut and place immediately in your growing medium. Water daily with mixture until roots appear. For best results, keep growing medium or soil moist and warm with bottom heat (75-85°F)

2000820	Olivia's Cloning Solution - 1 Quart	\$12.95
2000821	Olivia's Cloning Solution - 1 Gallon	\$36.95
2000825	Olivia's Cloning Solution - Case of Quarts/24 Ct.	\$185.95
2000826	Olivia's Cloning Solution - Case of Gallons/4 Ct.	\$91.95

MYCORRHIZAE/SOIL AMENDMENTS

ARBICO Organics[™] Root Build 240[™] Mycorrhizal Fungi

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

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



DESCRIPTION: New Root Build 240 contains both

micronized Endo and Ecto mycorrhiza for a wide range of plant applications. This greater diversity in beneficial fungi meets the needs of a greater variety of plants. When introduced early in the

life of a plant, the endo and ecto will increase the roots' ability to absorb water and nutrients. Endomycorrhizae work within and around the roots of most vegetables, grasses, flowers and ornamentals while ectomycorrhizae live only on the outside of roots and focus on conifers. The high spore count in Root Build 240 means there will be maximum colonization of your plants' roots. Endo Spores: 240 spores/gr.

Ecto Spores: 1 x 10⁶ spores/gr.

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

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

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

Cannot be shipped to the following states: HI

Down To Earth[™] Bio-Live, 5-4-2



This Product Has It All – Including Mycorrhizal Fungi!

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

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



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

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

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

ARBICO Organics[™] Earthworms -*Eisenia fetida*

A Natural Way To Aerate Your Soil and Fertilize Your Garden.

TARGET: Use in soil or vermicomposting.

DESCRIPTION: These red wigglers are nature's decomposers and soil aerators. They consume organic matter and turn it into castings full of nitrogen, phosphorus, potash, magnesium and calcium. As they move through the soil, they break it up and introduce beneficial bacteria and oxygen. This stimulates fungal activity and more rapid breakdown



of organic matter. Plants love soil that these worms have been in!

SUGGESTED USE: Use 2-3 worms/sq. ft. 1,000 worms cover approximately 400 sq. ft.

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

ARBICO Organics[™] Earthworm Castings

So Good For Your Garden It's Almost Magical!

TARGET: Soils that need nutrients and microbial life.

DESCRIPTION: A sustainable byproduct of vermiculture, these castings have a bounty of benefits for your soil. They provide over 60 micronutrients and trace minerals in a slow release form; they add microbial life; they reduce transplant shock; they aerate and condition the soil and they have chitinase,



which helps in disease suppression and root knot nematode control. Can be used indoors and outdoors on anything you grow and can be used with other fertilizers and amendments.

SUGGESTED USE: Soil Mixture: Mix in at 3-5% by volume. Top Dressing: Apply a 1/4-1//2" layer every 2-4 mos. Worked into Soil: Incorporated into top inches of pots or beds prior to planting or mulching. Repeat when planting.

1308200	Earthworm Castings - 1 lb. Bag	\$4.95
1308201	Earthworm Castings - 5 lb. Bag	\$15.20
1308202	Earthworm Castings - 10 lb. Bag	\$25.00
1308203	Earthworm Castings - 25 lb. Bag	\$47.95

SOIL AMENDMENTS

Earthshine

Make Your Soil Shine With This Multi-Faceted Soil Enhancer.

TARGET: Soil or soilless media that needs a boost of micronutrients or old soil that needs invigorating.

DESCRIPTION: This amazing blend of biochar and nutrients will elevate your soil/soilless media and improve the effectiveness of any products you add to it. It will also make a killer compost tea. Although this blend is made with glacial rock dust, soybean meal, humic acid and worm castings, the driving force behind it is biochar. Biochar is known to rejuvenate soil carbon levels; trap and hold nutrients; sequester



CO₂ in the soil; encourage microbial health and increase water use efficiency. With all of these benefits, Earthshine will not only save you money in water and fertilizer costs, the increased carbon levels will contribute to long-term healthy soil.

SUGGESTED USE: Not suitable for aeroponic or hydroponic recirculation systems. Revive old soil: 16 oz. per cu. ft. of media. Transplanting: 1 tbsp. in transplant hole. Boost new soil: 8 oz./4 cu. ft. of new soil. Compost tea: 1 oz./5 gals. purified water and aerate for 6 hours. Soil rescue: If garden is established, top dress 4 oz. around plant once every 4 weeks.

1306040	Earthshine - 2 lbs.	\$22.89
1306041	Earthshine - 5 lbs.	\$35.95

Cannot be shipped to the following states: AL, AK, AR, CT, DE, DC, FL, GA, ID, IN, IA, KS, KY, LA, MD, MI, MN, MO, MT, NE, NH, NJ, NM, NY, NC, ND, RI, SC, SD, TX, UT, VT, VA, WV, WY

Andesite Mineral Complex[™]

Bring Volcanic Power To Your Soil With This Biodynamic Amendment!

TARGET: Soils that need mineral enrichment.

DESCRIPTION: This product returns essential

beneficial minerals and trace elements from volcanic rock to your soil in a slow, natural release. Your plants will benefit by having enhanced resistance to insect pests, disease, frost and drought as well as improved nutrient uptake. This paramagnetic rock aids in carbon exchange (CDC) in soil, helps balance soil pH levels, improves brix levels in plants and works with other natural inputs. Can be used in any growing media and will not clog hydroponic or irrigation systems. Can be used on all crops and can be made into a compost tea.

SUGGESTED USE: Can be applied throughout the year or growing cycle. Cannot be over-applied and will not burn. Apply as little as 1-2 tsp. per pot to 25-40 for garden beds. Call for specifics.

1308320	Andesite Mineral Complex - 3 lbs.	\$15.49
1308321	Andesite Mineral Complex - 25 lbs.	\$37.50
1308322	Andesite Mineral Complex - 40 lbs.	\$54.99
*Free Shipping in the contiguous 48 states. Ships via Ground ONLY.		

BioAct[™] SD



Chews Right Through Field Stubble & Crop Residue.

TARGET: Use to accelerate the decomposition process of field stubble and crop residue.

DESCRIPTION: Gets rid of old organic matter from previous harvests and provides your plants with new and improved soil in



which to grow. It uses beneficial microorganisms and humic acid to accelerate the decomposition of tough-to-handle plant stubble and crop residue by producing enzymes that jump-start the process. The addition of billions of microorganisms to the soil provides the foundation for healthier soil and stronger plants. Excellent for no-till farming and straw bale gardening. Sustainable and non-hazardous. Not compatible with pesticides or fungicides.

SUGGESTED USE: Use 1 lb/acre. Requirements may vary due to crop and field conditions and substrate specifics; but, generally, increasing the amount used will increase the rate of residue decomposition.

1810840	BioAct SD - 1 lb.	\$24.25
1810841	BioAct SD - 5 lbs.	\$106.99
1810842	BioAct SD - 20 lbs.	\$429.99

Cannot be shipped to the following states: AR, CA, CO, DE, DC, IL, KS, ME, MD, MA, MN, MS, MT, NC, ND, OH, OK, RI, SD, UT, WV, WY

SaferGro Supergro[®], 1-0-4



Packed Full Of Beneficial Microorganisms & Enzymes To Bring Your Soil To Life.

TARGET: For use in foliar and soil applications as a biological starter fertilizer and a soil activator.

plants and higher yields.

DESCRIPTION: Made via a unique fermentation process, this product contains a selection of enzyme complexes and beneficial microorganisms that work both individually and together for exceptional results. They will improve nitrogen fixation, stimulate germination, crowd out and rebuff plant

Supergro 1-0-4

together for exceptional results. They will improve nitrogen fixation, stimulate germination, crowd out and rebuff plant pathogens, solubilize phosphorus for improved uptake and energize the decomposition process. You'll get a vibrant, living soil that'll create robust

SUGGESTED USE: Do not mix with pesticides or fungicides, but can be applied with diluted fertilizer. Houseplants: 1 oz/gal water once a month. Vegetables/large plants: 1 1/2-2 oz./gal. water every 2-3 mos. Lawn/garden: 1 1/2-2 oz./gal. water and water in. Repeat every 4-6 wks. Trees: Can be applied foliarly (1 1/2-2 oz./gal. water to entire tree) or in soil (2-3 oz./gal. water every 4-6 wks.). Hydroponics: 150 ppm.

1810970	SaferGro Supergro - 1 Pint Conc.	\$11.29
1810971	SaferGro Supergro - 1 Quart Conc.	\$16.79
1810972	SaferGro Supergro - 1 Gallon Conc.	\$49.99
Cannot be shipped to the following states: AK, ME, RI, RN		

ARBICO FAMILY OF FERTILIZERS

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





JHBíotech

a var

and keep your soil healthy. Have a small garden? Try the new "mini" sizes.

JH Biotech, Inc.

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

John & Bob's Smart Soil Solutions

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

John Bobs Grow Green SMART SOIL SOLUTIONS



Maxicrop

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





Neptune's Harvest

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



Hydrolysis and the result is an exceptional fish hydrolysate fertilizer.

RX Green Technologies

RX Green Technologies provides simple to use, research-backed and scrupulously made products to cannabis cultivators with a heavy emphasis on customer service. Their research and development facility is the only cannabis specific facility in the industry and they are always examining and fine-tuning their products to offer the very best to their customers.





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.



Suståne

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





WEED CONTROL

WeedGuardPlus® Organic -**Heavy Weight Rolls**

This Tough Weed Block Will Hold Up Under The Elements!

TARGET: Use for weed suppression.

DESCRIPTION: This paper weed block is adaptable to nearly any size growing operation in nearly any environment. 100%

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

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

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

PRE-EMERGENT

Suståne® Spring Weed & Feed, 9-0-0

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

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

DESCRIPTION: This OMRI listed corn gluten meal works wonders in 2 ways: it is a natural broadleaf pre-emergent that suppresses weeds to prevent them from establishing and it provides

high levels of nitrogen to green up already established plants and turf. For use as an herbicide, apply before germination of seeds. Should not be applied to new seedlings or when laying sod.

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

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



SELECTIVE

BONIDE® Weed Beater® Fe

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 RTU. 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).

1453792	BONIDE Weed Beater Fe Conc 1 Pint	\$14.99
1453790	BONIDE Weed Beater Fe RTU - 1 Quart	\$9.99
1453791	BONIDE Weed Beater Fe RTU - 1 Gallon	\$28.99
Cannot be shipped to the following states: CA		

BROAD SPECTRUM



Avenger[®] Weed Killer

Fast-Acting Natural Herbicide.

TARGET: Broadleaf, crab grass and other unwanted weeds.

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

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

1453808	Avenger Weed Killer - 24 oz. RTU*	\$12.95
1453809	Avenger Weed Killer - 1 Quart Concentrate	\$25.00
1453810	Avenger Weed Killer - 1 Gallon Concentrate	\$80.00
1453812	Avenger Weed Killer - 5 Gallon Concentrate	\$330.00
*Cannot be shipped to the following states: DC, PR, SD, VI		

WEED CONTROL

BROAD SPECTRUM

BioSafe Weed Control

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

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



DESCRIPTION: BioSafe Weed Control is a nonselective herbicide that works on contact when applied as a foliar application with a manual sprayer. For best results, cover plant leaves thoroughly and uniformly

with spray. Take care to avoid contacting wanted plants. This soap product uses Ammonium Nonanoate to penetrate the cell walls of the plant to disrupt their normal functioning and cause death. This product does not move through the soil or between plants and leaves no harmful residue.

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

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

BONIDE® Burnout

Fast Acting Weed & Grass Killer!

TARGET: Unwanted grass and weeds.

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



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

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

SNS WeedRot

An All-Round Excellent Choice For Non-Toxic Weed Control.

TARGET: Star Thistle, Clover, Spurge, Dandelions and other weeds.

DESCRIPTION: This post-emergent, nonselective weed killer uses Citric Acid to efficiently knock down and kill many of the most problematic common weeds. It works on weeds in two ways: it adheres to and begins to remove the waxy outer layer on the plant and it penetrates well into the roots to block the plant's ability to take in amino acids and nutrients. Will



not persist in or cause harm to soil. Starts browning weeds in 1-2 days, with a complete kill in 5-10 days. EPA Exempt Title 25b. Not harmful to people or pets, so it can be used in and around your home and garden.

SUGGESTED USE: Spray directly on leaves and stems, saturating the entire plant. Works best on plants less than 6" in height; weeds larger than 6" may require additional applications. Start with 24 oz. of concentrate and add 104 oz. of water to make 1 gal of Ready to Use. More or less of the concentrate can be mixed based on weed size and weed type. For best results, use water that is around 7 pH and has a TDS (Total Dissolved Solids) of less than 250. In some cases, you may need to use a conditioner for your water.

1453760	SNS WeedRot - 32 oz. RTU	\$14.99
1453761	SNS WeedRot - 1 Gallon RTU	\$39.99
1453762	SNS WeedRot - 1 Gallon Conc.	\$67.50
1453763	SNS WeedRot - 2 1/2 Gallons Conc.	\$156.25

Phydura[™]

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

TARGET: Unwanted leaves and grasses.

DESCRIPTION: OMRI listed Phydura uses clove oil and other biodegradable ingredients to quickly knock down and kill unwanted leaves and grasses. These ingredients work by adhering to the weed and breaking down the cell structure through a burn down process. After application, plants will begin to wilt in 30-60 minutes and be actively dying within 24 hours. Phydura is a non-selective herbicide, which means that all plants that come in contact with the



spray will be affected. You will need to take extra care not to allow spray to contact non-target plants. Phydura will not translocate in the soil to the roots of desirable plants.

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

1453880	Phydura - 32 oz. Concentrate	\$17.49
1453882	Phydura - 1 Gallon Concentrate	\$52.95
1453884	Phydura - 2.5 Gallon Concentrate	\$99.95
	9.11	

Larger sizes available.

DISEASE CONTROL

Disease Control

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

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

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

RootShield[®] Plus Granules & RootShield[®] Plus WP



Use This Biological Fungicide To Eliminate Hard To Control Diseases!

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

DESCRIPTION: OMRI listed and EPA registered, this product will help eliminate damaging fungal pathogens by colonizing plant root systems and by boosting biological diversity of the rhizosphere. This unique product is comprised of live microbial beneficial fungi *Trichoderma harzianumstrain* T-22

and the newly developed *Trichoderma* virens strain G-41, delivering an extended array of pathogen control.

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

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

1332754	RootShield Plus Granules - 10 lb. Box	\$188.00
1332755	RootShield Plus Granules - 40 lb. Bag	\$415.00
1332756	RootShield Plus WP - 1 lb. Bag	\$118.00
1332757	RootShield Plus WP - 3 lb. Box	\$255.00
Granular cannot	he chinned to: AV a WD connet he chinned to: AV	

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

PreFence[™] Biofungicide

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

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

DESCRIPTION: OMRI listed PreFence contains mycelium and spores from a naturally occurring bacterial strain derived from Sphagnum peat. This bacterium encapsulates disease spores and stops



OMR

them from causing devastating plant disease. In addition to controlling wilt and root diseases, it is also an exceptional tool to curb damping-off in propagation. It is most effective when used preventively before diseases have taken hold.

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

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

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

RootShield[®] Home & Garden

Help Your Vegetables, Flowers & Ornamentals Fight Root Diseases!

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

DESCRIPTION: RootShield Home & Garden is an OMRI listed product that will protect your plants from root disease pathogens and give them that extra boost to make them really flourish. The active ingredient in this natural pesticide is *Trichoderma harzianum*, strain T-22, a beneficial fungus. This organism has been thoroughly

developed and tested in over 18 years of university studies and is now ready to work for you. It will protect your plants' roots from soil-borne diseases, which allows them to put their energy into growing and blossoming.

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

1332740	RootShield Home & Garden - 4 oz.	\$22.00
1332741	RootShield Home & Garden - 1 Case (12 Bottles)	\$215.00
Cannot be shipped to the following states: AK, DC, HI, IA, MT, ND, NE, SD, WY		



DISEASE CONTROL

Prestop® WG

This Aggressive Soil Fungus Is Devastating To Many Plant Pathogens.

TARGET: Alternaria, Bipolaris, Botrytis, Cladosporium, Colletotrichum, Fusarium, Mycosphaerella, Penicillium, Phytophthora, Plasmodiophora, Plicaria, Pyrenochaeta, Pythium, Rhizoctonia, Sclerotinia, Verticillium, Helminthosporium, Anthracnose, Didymella, Monilinia and powdery mildew.



DESCRIPTION: The Gliocladium catenulatum Strain J1446, in Prestop WG is a potent weapon against many damaging crop diseases. The mycelia and

spores from this fungus move into and live in the rhizosphere and aerial parts of plants and stay viable there for weeks. They then provide disease control by breaking down, weakening and parasitizing pathogens; replacing the pathogen within the plant and aggressively colonizing all parts of the plant. The result is an inevitable pathogen die-off. Once the stress of disease fighting is gone, you will see healthy new growth.

SUGGESTED USE: Apply by spraying or drenching the growth substrate, as a foliar spray, in chemigation, fogging or incorporation it into the growth substrate as an aqueous suspension. Foliar spray: 0.05% suspension.

Prestop WG - 100 grams 1332985 \$130.00 Cannot be shipped to the following states: AL, AR, AK, CA, DC, HI, ID, IA, LA, NE, ND, SC, SD, TN, WV, WY

Mycostop[®]

A Versatile & Highly Effective Stand-Alone Biofungicide.

TARGET: Fusarium, seed or soil-borne damping off, Alternaria, Phomopsis, Botrytis, Pythium, Phytophthora and Rhizoctonia.

DESCRIPTION: This classic biofungicide contains mycelium and spores of *Streptomyces* Strain K61, a naturally occurring bacterium derived from Sphagnum peat. This strain controls some

of the most destructive of plant pathogens by rapidly colonizing plant roots, displacing the pathogenic fungi there and robbing it of nutrients; disrupting and ultimately breaking down the cell wall of the pathogens and producing metabolites that constrain the pathogens while encouraging plant defense mechanisms and healthy growth. For best results, use preventatively.

SUGGESTED USE: Can be applied as a seed treatment, in potting media, as a transplant or cutting dip, soil spray or drench applications or in an irrigation system. In most applications, use in the form of an aqueous solution. A suspension of 0.01% to 0.1% by weight is a basic rate for soil applications. Repeat every 2-6 weeks as needed for diseases control. Use the higher rate and more frequent application for high disease pressure and for larger plants.

1332981	Mycostop - 5 grams	\$31.00
1332982	Mycostop - 25 grams	\$133.99
Cannot be shipped to the following states: AL, AK, DC, HI, ID, IA, LA, NE, ND, SC, SD, TN,		
WV, WI, WY		

OxiPhos[®]

Two Modes Of Action For Twice The **Disease Fighting Power.**

TARGET: Use to control and prevent diseases caused by the oomycete group of pathogens.

DESCRIPTION: Made with a combination of hydrogen peroxide and phosphorus acid, this product works both systemically and on contact. The phosphorus acid works inside the targeted pathogens to inhibit certain essential metabolic actions and to block enzymes vital to their growth. It can also spur a plant's natural defense mech-



anisms. The hydrogen peroxide works on contact to oxidize components of the pathogen's cell membranes, which causes cell breakdown and death. Can be used on all crops, turf and ornamentals in fields, greenhouses and storage areas. Can be applied throughout the growing system.

SUGGESTED USE: The following are representative dilution and application rates. Please call for more specific information: Foliar spray for downy mildew-1:300 dilution-use 42.3 fl. oz./100 gals. water; apply 30-100 gals. of spray solution/treated acre. Soil drench for Phytophthora -1:3,000 - 4.3 fl. oz./100 gals. water. Foliar Spray for Pythium on turf-1:300 dilution. Root dip for bacterial blight on berries-2 qts./100 gals. of water, 2 1/2-5 qts./acre.

1222570	OxiPhos - 2.5 Gallons Conc.	\$215.00	
1222571	OxiPhos - 5 Gallons Conc.	\$308.00	
Cannot be shipped to the following states: AK, CA, HI, PR, TX			

Regalia®

OMRI Listed Control For Both Bacterial & Fungal Diseases.

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

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



organic production. Unique FRAC P₅ classification. 4-hour REI.

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

1332968	Regalia - 1 Quart	\$49.99
1332969	Regalia - 1 Gallon	\$115.00
1332970	Regalia - 2.5 Gallons	\$220.00



DISEASE CONTROL

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*.



OMRI

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

SUGGESTED USE: Approved for NOP production. Use 2-8 qts./100 gallons of water approximately once per week. (see label online for specific crops and diseases.) This product is suitable for ,wet applications. Use with a spreader sticker such as ThermX[™]-70 Natural Wetting Agent (see page 44) in wet environments.

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

MilStop[®] Broad Spectrum Foliar Fungicide



Excellent For Controlling Powdery Mildew & Other Fungal Diseases!

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

DESCRIPTION: MilStop is an OMRI listed, WSDA registered foliar fungicide. Potassium bicarbonate-based fungicide

that kills powdery mildew on contact by pulling water from spores and their growing strands. It also inhibits enzymes involved in fungal cell wall formation by altering the pH on the leaf surface. Foliar applications provide 1-2 weeks of residual protection.

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

 1332753
 MilStop Foliar Fungicide - 5 lb. Bag

 Cannot be shipped to the following state: CA, AK

\$63.00

FORTIFY Fungicide

Modern Technology + Time-Honored Ingredients = 1 First-Rate Product

TARGET: Use to prevent and cure Powdery Mildew.

DESCRIPTION: This broad spectrum fungicide offers a combination of proven fungus-fighting oils, cinnamon, thyme and linseed, in a proprietary surfactant and stabilization formula. This chemical technology creates a seamless blend that provides exemplary coverage of plant surfaces with quick and efficient absorption of active compounds. No additional surfactant needed. Can be used on indoor, greenhouse and outdoor crops.



SUGGESTED USE: Apply as a foliar spray. Maintenance application: Mix 1 oz./ gallon water and apply on a weekly basis. Aggressive application: Mix 6 oz./ gallon water and apply every 3-4 days for a period of 2 weeks.

3000560FORTIFY Fungicide - 1 Gallon Concentrate\$154.99Cannot be shipped to the following states: AL, CT, DC, GA, ID, IN, IA, KS, KY, MD, ME, MN,
MS, MO, NE, NC, ND, RI, SC, SD, TN, UT, VA, VT, WV, WI, WY

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

2000080	Serenade 32. oz. Concentrate	\$22.85
2000081	Serenade 32 oz. RTU Spray Bottle	\$15.75

For Pest & Disease Control, Consider a Mineral Oil Such as JMS Stylet Oil or Suffoil-X. (See Page 24.)

CLEANING & SANITIZING

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*, r ust, scab, smut and *Thielaviopsis*.



OMRI

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

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

1222501	OxiDate 2.0 - 2.5 Gallons	\$240.00
1222502	OxiDate 2.0 - 5 Gallons	\$370.00

Larger sizes available.

*Free Shipping in the contiguous 48 states. Ships via Ground ONLY. Cannot be shipped to the following states: PR, VI, GU, AS, PW, AK, HI



An OMRI Listed Sanitizer/Disinfectant.

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

DESCRIPTION: Contains hydrogen peroxide and peroxyacetic acid as an alternative to chlorine to sanitize and disinfect post harvest equipment, fruit and vegetables and various hard surfaces. Usage industries include farms, dairies, beverage plants, food

processing plants, greenhouses, etc. No dumping or run-off restrictions.

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

1222515	SaniDate 5.0 - 2.5 Gallons	\$208.00
1222517	SaniDate 5.0 - 5 Gallons	\$308.00

Larger sizes available. All sales of SaniDate are final.

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

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.

Hygrozyme[®] Horticultural Enzyme Formula



A Simple Mode of Action With Complex Benefits For Your Plants.

TARGET: Decaying root material.

DESCRIPTION: A non-gmo enzyme cleaner for growing media that eliminates dead root matter and provides a cleaner and healthier root zone for your plants. Contains 4 core enzymes (cellulose, xylanase, hemicellulose and beta-glucananse) that work synergistically to provide all the ingredients needed to thoroughly break down decaying plant matter. The



OMR

SeroTol 2.0

resultant clean root zone prevents diseases by improving drainage and aeration in the growing media and gives young roots more space and nutrients to thrive. Can be used in all stages of the growing cycle and in all kinds of growing media. Compatible with all nutrient and supplement programs.

SUGGESTED USE: Use R.O. or filtered water. Mix 8-10 mL /gallon of water or nutrient solution. Use with every watering or in your feeding schedule. For propagation: Use mL/gallon water to soak trays and media prior to use.

3000700	Hygrozyme Horticultural Enzyme Formula - 500 ml	\$21.95
3000701	Hygrozyme Horticultural Enzyme Formula - 1 liter	\$36.95
3000702	Hygrozyme Horticultural Enzyme Formula - 4 liters	\$132.95
3000703	Hygrozyme Horticultural Enzyme Formula - 10 liters	\$313.95
Larger sizes a	vailable.	

ZeroTol[®] 2.0

Kills Pathogens On Plants As Well As Bacteria, Algae & Fungi On Hard Surfaces.

TARGET: Alternaria, Anthracnose, Aphanomyces, molds & mildews, bacteria, spots & rots, Erwinia, Phytotophthora (blights, rots), Plasmopara, Pseudomonas, Pythium, Rhizoctonia, rust, scab, smut, Thielaviopsis, Xanthomonas, wilts & blights, fungi, algae and Tobacco Mosaic virus.

DESCRIPTION: This liquid wonder uses a combination of Hydrogen Peroxide and Peroxyacetic

Acid to prevent and control a wide range of pathogens on plants and in the soil. It works equally well to suppress and control bacteria, fungi and algae on hard surfaces and equipment. This is especially useful to contain the spread of disease in your growing area. When used as directed, there will be no strong odor, visible residue or harmful effects on plants.

SUGGESTED USE: For use as a foliar spray, in irrigation and fogging applications, as a soil drench, seed treatment, in hydroponics, as a pre-plant dip and on hard surfaces. Curative treatment: between 1:100-1:400 (1-4 gals./100 gals. water). Apply every 3-5 days until control is achieved. Preventative treatment: 1:200-1:400 (or 32-64 fl. oz./100 gals. water) every 5-10 days. Large scale application: 50-500 gals./acre or 11.5-115 gals/10,000 sq. ft. Ensure thorough coverage of all foliage, stems, branches and stalks.

 1222401
 ZeroTol 2.0 - 2.5 Gallons
 \$260.00

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

 Cannot be shipped to the following states: CA



SaniDate 5.0

OMR

PRODUCTION AIDS

Brandt[®] Organics SKH Sticker



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

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



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

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

ThermX[™]-70 Natural Wetting Agent



Overcome Adverse Water Conditions!

TARGET: Increases water & fertilizer uptake.

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



SUGGESTED USE:

Wetting Agent: ≈1/4 tsp./gal. water, ≈2-3 oz./acre Soil: ≈1-2 tsp./gal. water, ≈16 oz./acre

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

Call for larger sizes.

Boogie Blue Water Filters

A Great Grow Deserves Great Water.

TARGET: Chlorine, chloramine, pesticide residue, mercury, heavy metals, dissolved solids, fluoride and other chemicals



DESCRIPTION: Whether you are dealing with additives in municipal water, or worry about what-all is in your well water, Boogie Blue filters can help. They attach quickly and easily to your hose and use catalytic carbon and/or KDF membranes to greatly reduce chemical compounds and organic matter in your water (up to 99% of the chlorine and 87% of the chloramine in municipal waters). Available as Boogie Blue Basic, which will last for 10,000-50,000 gallons.

SUGGESTED USE: Attach filter to any standard 3/4" hose. Before initial use, flush filter by running water through it for 1 minute or until water runs clear. When not in use, keep attached to hose or remove and keep closed at both ends. Do not leave filter under constant water pressure. When storing, do not allow filter to dry out; storing in a zip-lock type bag works well.

2000600	Boogie Blue Basic	\$29.90
2000605	Boogie Blue Plus	\$59.00

Water Conditioner

Cleans Up Tap Water In One Simple Step.

TARGET: Removes, neutralizes and detoxifies chlorine, chloramines and heavy metals in water.

DESCRIPTION: Clean water is essential for healthy and productive growing. Most tap water in urban and suburban areas are treated with sanitizing agents which may include chlorine and chloramines. Not to mention trace heavy metals and other toxins commonly found in water. This product will not only eliminate and neutralize undesirable additives, it will



provide additional electrolytes. You will have an amazing water upgrade that your plants will love. This non-toxic product will not harm humans, pets or aquatic life (not for use with fish intended for human consumption) Do not: use more than the recommended amount or use with Permanganate-based treatments.

SUGGESTED USE: Use in hydroponic, aquaponics and traditional growing with first time tank or reservoir use; before/after adding or changing water and before/after adding fish/aquatic life or plants. 8 oz. will treat up to 2,000 gallons. 32 oz. will treat up to 8,000 gallons. Use 1-2 tsp/40 gals water. For larger applications use 1 fl oz/250 gals water.

2000650	Water Conditioner - 8 oz.	\$16.95
2000651	Water Conditioner - 32 oz.	\$35.95
Cannot be shipped to the following states: AL, AK, AR, CT, DE, DC, FL, GA, ID, IN, IA, KS,		
LA, MD, MI, MN, MO, MT, NE	NH, NJ, NM, NY, NC, ND, PR, RI, SC, SD, YX, U	T, VT, VA, WV, WY

PRODUCTION AIDS

HOSE END SPRAYERS

Chameleon Adaptable Hose End Sprayer

Get Perfect Application With This Highly Adjustable Sprayer.

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



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

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

Economical Liquid Hose End Sprayer

This Simple Sprayer Does All That You Need It To.

DESCRIPTION: This hose-end sprayer is the perfect choice for no-fuss, inexpensive yet effective spraying. It will accurately mix and spray in 3 simple steps (fill, attach and spray) and with only 3 settings to choose from (ON, OFF & Water Only), there's no complicated spray settings or conversions to figure out. Capable of spraying 1-30 gallons (4-76 liters). Can be used with most brands of liquid concentrates used by homeowners and professionals.

SUGGESTED USE: Use for watering, applying fertilizers, pest and weed controls and/or cleaning solutions.

1800106

Hudson Economical Hose End Sprayer

\$8.99

Let the Hose End Sprayer Do the Mixing For You!

- Beneficial Nematodes Pages 13-15
- Insecticides Pages 24-27
- Herbicides Pages 38-39
- Fungicides Pages 40-43

BONIDE[®] Auto Mix Hose End Sprayer

No Mixing Or Measuring - Just A Few Quick Steps To Get You Spraying.

DESCRIPTION: This easy-to-use hose end sprayer automatically mixes the correct amount of product for a flawless liquid application with no fuss. Pour product directly into jar (up to 1 qt) and spray. It has 12 settings from 1 tsp. to 6 gals. and 3 spray patterns – stream (ideal for hard



to reach areas and trees), flat fan (for wide surfaces like lawns) and shower (nice and gentle for delicate flowers and foliage). Ergonomic handle with a simple on/off thumb switch. Wide mouth and sturdy base for easy filling and fewer spills. Full instructions, complete with diagrams, to make an easy-to-use product even clearer.

SUGGESTED USE: Use for diluting and spraying gardening products and applying Beneficial Nematodes.

1800010

BONIDE Auto Mix Hose End Sprayer



\$17.99

Self-Mixing Hose End Sprayer

No Pre-Mixing Needed With This Powerful and Versatile Sprayer.

DESCRIPTION: This workhorse of a sprayer has all the options you want for nearly any type of spraying you need done: 3 spray patterns (shrub, lawn and tree) give you exactly the type of coverage you need; adjustable from fine spraying to a stream that will reach up to 30 ft.; sprays up to 100 gallons in a single filling and has



16 mixture settings. With a durable brass mixing head, metal spray handle and sturdy, reusable poly bottle this sprayer will stand up to the test of time.

SUGGESTED USE: Use to spray foliar nutrients and most brands of fertilizers, herbicides and insecticides.

1800107

Self-Mixing Hose End Sprayer

\$23.99

For Larger Capacity Sprayers, Visit arbico-organics.com



ANIMAL CONTROL

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! Seethrough, and reusable. The smaller trap can hold



up to about 9 mice at one time, the larger trap can hold approximately 30 mice!

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

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

The Smart Mouse Trap

A Humane Solution For Trapping Pesky Mice!

TARGET: Mice.

DESCRIPTION: This innovative, no-kill and easy-to-use trap is made of green transparent plastic and has two stainless steel springs that maneuver the special trap door. As a mouse enters the trap to retrieve a snack, its minimal



weight releases the spring trigger closing the door behind them! The little critter will then remain in the trap enjoying its treat until safely released back into the wild. Measures $3'' \times 7'' \times 2.5''$.

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

1255001

Smart Mouse Trap - 1 Per Box

\$14.20

Mouse Magic

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 approximatch thirty daw when used according to the dir

mately thirty days when used according to the directions.

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

1287710	BONIDE Mouse Magic Mouse Repellent 4 Pack	\$9.00
1287711	BONIDE Mouse Magic Mouse Repellent 12 Pack	\$22.50
Cannot be shipped to the following states: DC, IN, KY, NM		

BONIDE® Rat Magic[™]

Two Different Ways To Get The Same Great Rodent Control.

TARGET: Use to drive away rats, squirrels, chipmunks and other rodents.

DESCRIPTION: This combination of cedarwood, castor, clove and peppermint oils is repugnant to rodents and triggers an escape/avoidance response in them. This formula comes in two versions, granules and scent packs. Both are biodegradable and easy to use, simply choose what suits your particular needs the best. Not harmful to plants, people or pets.



SUGGESTED USE: Scent Packs: Distribute where rodents hide, feed or congregate. Use 1 pack per average size room and increase as needed until desired affect is achieved. Granules: Barrier/perimeter treatment - Sprinkle to create a band around area to protect. 1 lb. will treat a band 2' W x 100' L. For maintenance, use 1 lb/200 sq. ft. Reapply every 2 weeks or after rains. Indoor Use: Sprinkle where rodents hide, feed or congregate. Vacuum up and reapply every 2 weeks or until infestation is eliminated.

1287720	BONIDE Rat Magic Scent Packs - 8 Count	\$18.99
1287721	BONIDE Rat Magic Granules - 5 lbs	\$19.99
Cannot be shipped to the following states:		
4207720. CT IN	ME NIM CD 1307731. IN NIM	

1287720: CT, IN, ME, NM, SD 1287721: IN, NM

BONIDE® Bat Magic®

Rid Yourself Of Nuisance Bats Without Harming Them!

TARGET: Many species of bats.

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



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

12877154 RTU Place PacksCannot be shipped to the following states: DC, IN, KY, NM

\$8.99



REPELLENTS

Bobbex Rose,[™] Deer & **Insect Repellent**



Protect Your Pretty Roses From Predation By Creatures Large & Small.

TARGET: Japanese beetles, aphids, mites, leafhoppers, greenflies and sawflies. Also helps with black spot & powdery mildew.

DESCRIPTION: This dual action spray keeps your roses safe from hungry deer and damaging insects through a combination of taste and smell aversion. Strong enough to repel a deer, but gentle enough to apply on delicate foliage. This pleasant smelling repellent can be used year-round and dries

clear and tough for long-lasting protection from predation and weather conditions. Works on Japanese beetles and other common rose damaging insects. Can reduce the severity of black spot and powdery mildew infestations. Will not harm wildlife, pets or people.

SUGGESTED USE: Spray on dry plants when temperature is between 35°F and 85°F. Allow at least 6 hours to dry. Growth season: apply every 10-14 days or when buds or growth appear. Dormant season: apply every 4-8 weeks.

1287550	1 Quart Concentrate	\$24.99
1287551	1 Quart RTU	\$16.99
1287552	48 oz. RZ RTU Pump	\$24.99

Cannot be shipped to the following states: AL, AK, AZ, AR, CT, DE, DC, FL, IN, IA, KS, KY, LA, ME, MD, MI, MS, MT, NM, NC, ND, OH, OK, PA, SD, TN, UT, VT, VA, WV, WI, WY

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 gt. concentrate will make up to 2 gallons of repellent. Apply as needed with any type of sprayer and water afterwards.

1287601	BONIDE Repels-All Animal Repellent 1 Quart RTU	\$15.28
1287600	BONIDE Repels-All Animal Repellent 1 Quart Conc.	\$21.50
Cannot be ship	pped to the following states: IN, NM	

GOPHER & MOLE

Root Guard Gopher Wire Baskets

Stop Gophers From Damaging Plant Roots!

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

DESCRIPTION: Designed to keep the smallest

and most pernicious gophers from ruining your garden or lawn. Built from long-lasting 20-gauge, double galvanized metal.



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

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

Chase[™] Granular Mole & Gopher Repellent

Biodegradable, Environmentally Friendly & Easy-To-Apply.

TARGET: Gophers & moles.

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



Active Ingredients: Castor Oil 19.5%, Sodium Lauryl Sulfate 4.5%. Inert Ingredients: Corn Cob Granules 76%.

SUGGESTED USE:

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

1287900	Chase Granular Mole & Gopher Repellent - 6 lbs.	\$24.95
1287901	Chase Granular Mole & Gopher Repellent - 32 lbs.	\$79.00



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 bacteriaphora, Steinernema feltiae and Steinernema carpocapsae. Use the Triple Threat to combat a broad variety of soil developing pests! Safe for use around home and gardens! See pages 13-15 for more information.

ANT CONTROL

Monterey Ant Control

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

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

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

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

1257895	Monterey Ant Control - 1 lb. Shaker Can	\$7.49
1257896	Monterey Ant Control - 2.5 lb. Jug	\$14.99
Cannot he chinn	ed to the following states: DC MO ND NI VA WA WA	

the following states: DC,



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.

OMRI

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



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

1460005 Orange Guard Fire Ant Control - 1 Gallon \$32.75 Cannot be shipped to the following states: AK, CO, DE, DC, ID, IL, IN, IA, KS, KY, ME, MD, MA, MI, MN, MO, MT, NE, NV, NH, NJ, NY, ND, OH, OR, PA, PR, RI, SD, UT, VT, VA, WA, WV, WI, WY

CRAWLING INSECT CONTROL

Orange Guard® Home Pest Control



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

TARGET: Crawling pest insects.

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



SUGGESTED USE: For indoor use, spray from 12 inches

directly on pest insects. Saturate until visibly wet. Wait 3

minutes, then wipe excess with damp cloth. Apply to pet bedding to repel fleas. Keeps repelling for weeks. For outdoor use, generously spray perimeter of home and anywhere pests can enter to make a barrier of protection.

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



CRAWLING INSECT CONTROL

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 nondomestic settings (i.e., new construction).



OMRI

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

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

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.

1457403EcoPCO® AR-X Multi-Purpose Insecticide - 17 oz.**\$17.99**Ships via Ground ONLY.

Perma-Guard[™] Crawling Insect Control

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

TARGET: Any crawling or hopping pest insect.

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



insecticide, as can be the case with chemical controls. With regular applications of this OMRI listed product, you will receive continued protection.

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

1218250	Perma-Guard Crawling Insect Control - 2 lb. Bag	\$10.15
1218260	Perma-Guard Crawling Insect Control - 5 lb. Bag	\$18.35
Case sizes avai	lable.	

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

Essentria[™] G Granular Insecticide

A Granular That Handles A Handful Of Outdoor Pests!

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



DESCRIPTION: This quick and long-lasting natural granular insecticide uses essential botanical oils clove, thyme and wintergreen to treat various pests. Easy-to-use outdoors on landscapes, turf, building facilities and

around organic operations, sensitive areas such as schools, and in aquatic environments.

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

1273050 Essentria G Granular Insecticide - 22 lbs.

\$67.50

HOUSEHOLD PEST CONTROL

INDOOR FLEA & TICK CONTROL

BioCare® Electronic Flea Trap

Great Indoor Flea Control!

TARGET: Monitors and captures fleas.

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



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

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

Flea 'n Tick B Gone™

Fast Acting & Easy-To-Use!

TARGET: Owners wanting natural flea control for their pets.

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

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

 1452501
 Flea 'n Tick B Gone - 16 oz. RTU

 1452502
 Flea 'n Tick B Gone - 1 Gallon Conc.



\$63.00

NemAttack

Beneficial Nematodes

Combo packs of NemAttack[™] & NemaSeek[™] Beneficial Nematodes are your #1 defense against eggs and developing stages of fleas outdoors. Use these

two varieties of beneficial nematodes for your most comprehensive control. See pages 13-15 for more information.

NemaSe

INDOOR PEST TRAPS

Terro® Ant Baits

Two Ways To Get Rid Of Ants!

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

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

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

1257403	6 (Pre-filled) Bait Stations	\$7.89
1257401	Build-Your-Own Ant Killer Kit	\$5.40

BioCare® Cockroach Traps

Powerful Attractant Lures Cockroaches!

TARGET: Cockroaches.

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

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



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

BioCare® Window Fly Trap

A Clear, Pesticide-Free Way To Catch Flies.

TARGET: Multiple species of flies.

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

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

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







INDOOR PEST TRAPS

REVENGE® Pantry Moth Trap

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

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

DESCRIPTION: This trap attracts and captures adult flour moths. These moths are found in flour, rice, crackers, dog food, bird seed and cereal. Trap works by luring male moths into trap with a pheromone (insect hormone) that female moths use to attract males for mating. Reducing the number of male moths reduces egg laying and

mating. It is a good idea to keep a few of these traps on hand. Traps work without harmful chemicals!

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

1280302	Revenge Pantry Moth Trap - 2 Pack	\$6.10
1280303	Revenge Pantry Moth Trap - 2 Per Pack/Pack of 3	\$17.25
1280304	Revenge Pantry Moth Trap - 2 Per Pack/Pack of 6	\$31.50
1280305	Revenge Pantry Moth Trap - 2 Per Pack/Pack of 12	\$60.00

BioCare® Clothes Moth Trap

Uses A Natural Pheromone Lure!

TARGET: Adult male clothes moths.

DESCRIPTION: The Clothes Moth Trap attracts and captures adult male clothes moths. It signals when an infestation is present, but does not control larvae on clothing or personal objects. Female moths are especially attracted to oily or soiled fabrics, where they lay their eggs. The moths avoid light and are therefore difficult to find and identify. The Clothes Moth Trap catches webbing clothes moths during their mating season by



Moth Traps

using a natural pheromone lure. If moths are found in the trap, take immediate measures to control the larvae. Search out damaged fabrics and destroy, dry clean or freeze them (in a deep freeze for at least 14 days).

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

1260702	BioCare Clothes Moth Trap	\$8.35
1260703	BioCare Clothes Moth Trap - Pack of 3	\$23.25
1260704	BioCare Clothes Moth Trap - Pack of 6	\$42.00
1260705	BioCare Clothes Moth Trap - Pack of 12	\$81.00

Aunt Fannie's FlyPunch!

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

TARGET: For use against Fruit Flies (Drosophila).

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



SUGGESTED USE: No mixing or assembly required, simply

open the DiveJar flip top and place near common fruit flies areas. One DiveJar covers an area about 500 cu. ft. FlyPunch! Is most potent for the first 2 weeks, but may last up to 30 days. Dispose of DiveJar when full.

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

J.T. Eaton[™] Large Spider & Cricket Trap

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

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

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



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

Large Spider & Cricket Trap

1452440

\$5.90

IIN!'ARF'

SPIDER

SILVERFISH

TRAPS

AFE, EFFECTIVE

BioCare® Spider & Silverfish Trap

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

TARGET: Spiders & Silverfish.

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



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

1280200	Spider & Silverfish Trap - 1 Trap	\$9.25
1280201	Spider & Silverfish Trap - 3 Traps	\$23.50
1280202	Spider & Silverfish Trap - 6 Traps	\$44.50
1280203	Spider & Silverfish Trap - 12 Traps	\$84.00

BED BUG CONTROL

BED BUG CONTROL

Hygea Natural Bed Bug & Lice Exterminator

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

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

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

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

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

Hygea Natural Bed Bug & Lice Exterminator Laundry Treatment

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

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

1219600	Bed Bug & Lice Exterminator - 3 oz.	\$5.99
1219602	Bed Bug & Lice Exterminator - 24 oz.	\$11.99
1219605	Bed Bug & Lice Exterminator - 1 gal.	\$39.99
1219610	Bed Bug & Lice Laundry Treatment - 32 oz.	\$12.99
1219612	Bed Bug & Lice Laundry Treatment - 32 oz./Case of 12	\$139.99

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,

and those that travel in between, like fleas, crickets and ants. Virtually any insect that crawls through or jumps into this powder will suffer fatal damage to its exoskeleton, causing dehydration and death. This powder is odorless and non-staining and will remain effective for months, as long as it is kept dry and undisturbed.

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

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

ClimbUp[®]

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

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

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

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

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

earwigs, slugs and more. **DESCRIPTION:** Effective against bed bug adults, nymphs and hatchlings, this powder is also a potent weapon against other indoor and outdoor pests



OMP



MOSQUITO CONTROL

PERSONAL REPELLENTS

BiteBlocker® Insect Repellents

DEET Free Protection From Biting Pests.

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

DESCRIPTION: This extremely effective, DEET-free insect repellent is both sweat and waterproof and safe to use on every member of your family. Made with active ingredients of Soybean and Geranium oils and mild inert ingredients, these long-lasting repellents are gentle on the skin.



SUGGESTED USE: BiteBlocker Insect Repellent and BiteBlocker Family Safe Pen repel up to 3 hours (apply

every 2 hours for maximum protection); BiteBlocker Xtreme repels up to 8 hours. For added protection, add to clothing.

1211820	BiteBlocker Family Safe Pen - Single5 oz.	\$3.60
1211821	BiteBlocker Family Safe Pen - 2 pack5 oz. each	\$6.00
1211815	BiteBlocker Herbal Insect Repellent Spray - 4.7 oz.	\$7.99
1211819	BiteBlocker Xtreme Insect Repellent - 6 oz.	\$8.98

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

OSQUITOBAN

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

TARGET: Mosquitoes, fleas and ticks.

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

is impregnated with essential oils of citronella, lemongrass and geranium.

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

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

SO Essentials Insect Repellent



This Deet-free Spray Is Essentially The Only One You'll Ever Need.

TARGET: Repels most common types of mosquitoes.

DESCRIPTION: This plant-based bug spray uses essential oils to create a lovely smelling repellent that is a clear alternative to harsh and toxic chemical sprays. The combination of active ingredients, Lemongrass and Geraniol, is highly effective in repelling annoying and disease-carrying mosquitoes. This 100% DEET-free spray is also gentle enough to use on the whole family – even the 4-legged ones.



SUGGESTED USE: Shake well. Hold container 6-8 inches from skin while spraying. Slightly moisten skin-a little goes a long way. Reapply every 2 hours or as needed.

1212040 SO Essentials Insect Repellent - 6 oz. \$11.95

Bug Protector Spray Repellent - Mosquitoes

Don't Let Mosquitoes Ruin Your Outdoor Life!

TARGET: Mosquitoes, gnats and other insects.

DESCRIPTION: Mosquitoes can make any outing miserable and carry many serious diseases. This Deet-free spray repellent uses lemongrass, geranium, peppermint and cinnamon essential oils to provide full protection without the nasty smell, stickiness and harmful ingredients of toxic



bug sprays. Mosquito-borne diseases are not limited to people; there are a number of potentially fatal diseases that affect animals and Bug Protector works just as well for animals it does for

people. It has been formulated so that you can apply the spray directly to your pet's fur for thorough protection. In addition to the Spray Repellent, we offer Bug Protector Spray Pen Repellent and the Bug Protector Balm Stick Repellent. These are ideal for taking your bug protection with you wherever you go.

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

1212020	Bug Protector Spray - Mosquitoes - 2 oz.	\$2.99
1212021	Bug Protector Spray - Mosquitoes - 4 oz.	\$4.99
1212022	Bug Protector Spray - Mosquitoes - 8 oz.	\$6.99
1212028	Bug Protector Balm Stick - Mosquitoes - 2 Pack	\$5.99

CATALOG INDEX

Agribon32
Andesite Mineral Complex
Aphid Parasite - Aphelinus abdominalis
Aphid Parasite - Aphidius colemani
Aphid Parasite - Aphidius ervi6
Aphid Predator - Aphidoletes aphidimyza6
AQUABAC 200G Granular Bti Mosquito Control
AQUABAC Xt
ARBICO Organics Beneficial Nematodes
5
ARBICO Organics Blue Insect Traps
ARBICO Organics Earthworm Castings
ARBICO Organics Earthworms - Eisenia fetida35
ARBICO Organics Family of Fertilizers
ARBICO Organics Fly Eliminators
ARBICO Organics Root Build 240 Mycorrhizal Fungi35
ARBICO Organics Solar Fly Trap
ARBICO Organics Yellow Insect Traps
Asian Citrus Psyllid (ACP) Detector
Assassin Bug - Zelus renardii
Aunt Fannie's FlyPunch!
Avenger Weed Killer
Azera Gardening
BioAct SD
BioCare Apple Maggot Trap W/Lures
BioCare Clothes Moth Trap51
BioCare Cockroach Traps 50
BioCare Codling Moth Trap18
BioCare Electronic Flea Trap50
BioCare Gnat Stix
BioCare Spider & Silverfish Trap51
BioCare Window Fly Trap
BioCeres WP
Biojuvant Beny-Gro
BioSafe Weed Control
BiteBlocker Insect Repellents
Biting Fly Trap
Blue Sticky Strips17
Bobbex Rose, Deer & Insect Repellent47
BONIDE Auto Mix Hose End Sprayer45
BONIDE Bat Magic46
BONIDE Burnout
BONIDE Mouse Magic Mouse Repellent46
BONIDE Rat Magic
BONIDE Repels-All Animal Repellent47
BONIDE Thuricide Liquid Concentrate
BONIDE Weed Beater Fe
Boogie Blue Water Filters
BotaniGard ES & 22WP Beauveria bassiana
BotaniGard MAXX
Brandt Organics SKH Sticker
Bug Bam! Mosquito Band, Camp Grids & Pet Tags53
Bug Protector Spray Repellent – Mosquitoes53
Captivator Fly Trap31
Cease - Biological Fungicide
Chameleon Adaptable Hose End Sprayer45
Chase Granular Mole & Gopher Repellent
ClimbUp
Delta Trap21
DiPel DF
Down To Earth Bio-Live, 5-4-2
Down to Lattit Dio Live, J 4 Z
Earth Alive Soil Activator

Earthshine
Economical Liquid Hose End Sprayer45
EcoPCO AR-X Multi-Purpose Insecticide
EcoWorks EC24
EM•1 Microbial Inoculant
Enzyme Formula
Equiderma Horse Spray31
Essentria G Granular Insecticide49
Flea 'n Tick B Gone50
Fortify Fungicide42
Fungus Gnat Predator - Stratiolaelaps scimitus
Grandevo & Grandevo WDG25
Green Lacewings - Chrysoperla rufilabris
Gypsy Moth Trap21
Harris Bed Bug Killer
Harris Famous Roach Tablets
HUMA GRO Proud 325
Hygea Natural Bed Bug & Lice Exterminator52
Hygrozyme Horticultural Enzyme Formula
Inocucor Garden Solution
J.T. Eaton Large Spider & Cricket Trap
Ladybugs - Hippodamia convergens
Large Plastic Delta Trap
Life Cloning Mist
Life Cloning Solution
Mealybug Destroyer - <i>Cryptolaemus montrouzieri</i>
Mealybug Destroyer - Cryptolaemus montrouzien
Milky Spore Granular
Milky Spore Powder
MilStop Broad Spectrum Foliar Fungicide
Minute Pirate Bug - Orius insidiosus
Mite Predator - Amblyseius andersoni
Mite Predator - Galendromus occidentalis10
Mite Predator - Mesoseiulus longipes 10
Mite Predator - Neoseiulus californicus
Mite Predator - Neoseiulus fallacis11
Mite Predator - Phytoseiulus persimilis11
Monterey Ant Control
Mantanau D t 21
Monterey B.t
Monterey Citrus Leafminer Trap & Lure
Monterey Citrus Leafminer Trap & Lure. 18 Monterey Garden Insect Spray. 20 Monterey Peach Tree Borer Trap 18 Monterey Take Down Garden Spray. 27 Mosquito Bits. 23
Monterey Citrus Leafminer Trap & Lure. 18 Monterey Garden Insect Spray. 20 Monterey Peach Tree Borer Trap 18 Monterey Take Down Garden Spray. 27 Mosquito Bits. 23
Monterey Citrus Leafminer Trap & Lure
Monterey Citrus Leafminer Trap & Lure. 18 Monterey Garden Insect Spray 20 Monterey Peach Tree Borer Trap 18 Monterey Take Down Garden Spray 27 Mosquito Bits 23 Mosquito Dunks 23
Monterey Citrus Leafminer Trap & Lure. 18 Monterey Garden Insect Spray 20 Monterey Peach Tree Borer Trap 18 Monterey Take Down Garden Spray 27 Mosquito Bits 23 Mosquito Dunks 23 Moth Egg Parasites - Trichogramma spp. 20
Monterey Citrus Leafminer Trap & Lure. 18 Monterey Garden Insect Spray 20 Monterey Peach Tree Borer Trap 18 Monterey Take Down Garden Spray 27 Mosquito Bits 23 Mosquito Dunks 23 Moth Egg Parasites - Trichogramma spp. 20 Mycostop4 1
Monterey Citrus Leafminer Trap & Lure. 18 Monterey Garden Insect Spray 20 Monterey Peach Tree Borer Trap 18 Monterey Take Down Garden Spray 27 Mosquito Bits 23 Mosquito Dunks 23 Moth Egg Parasites - Trichogramma spp. 20 Mycostop4 1 Mycotrol WPO 26
Monterey Citrus Leafminer Trap & Lure. 18 Monterey Garden Insect Spray 20 Monterey Peach Tree Borer Trap 18 Monterey Take Down Garden Spray 27 Mosquito Bits 23 Mosquito Dunks 23 Moth Egg Parasites - Trichogramma spp. 20 Mycostop4 1 Mycotrol WPO 26 Olivia's Cloning Gel 34
Monterey Citrus Leafminer Trap & Lure. 18 Monterey Garden Insect Spray 20 Monterey Peach Tree Borer Trap 18 Monterey Take Down Garden Spray 27 Mosquito Bits 23 Most ga Parasites - Trichogramma spp. 20 Mycostop4 1 Mycotrol WPO 26 Olivia's Cloning Gel 34 Orange Guard Fire Ant Control 48
Monterey Citrus Leafminer Trap & Lure. 18 Monterey Garden Insect Spray 20 Monterey Peach Tree Borer Trap 18 Monterey Take Down Garden Spray 27 Mosquito Bits 23 Most garanites - Trichogramma spp. 20 Mycostop4 1 Mycotrol WPO 26 Olivia's Cloning Gel 34 Orange Guard Fire Ant Control 48 Orange Guard Home Pest Control 48
Monterey Citrus Leafminer Trap & Lure. 18 Monterey Garden Insect Spray. 20 Monterey Peach Tree Borer Trap 18 Monterey Take Down Garden Spray. 27 Mosquito Bits. 23 Moth Egg Parasites - Trichogramma spp. 20 Mycostop4 1 Mycotrol WPO 26 Olivia's Cloning Gel 34 Orange Guard Fire Ant Control 48 Orange Guard Home Pest Control 48 Organic JMS Stylet-Oil 24
Monterey Citrus Leafminer Trap & Lure. 18 Monterey Garden Insect Spray 20 Monterey Peach Tree Borer Trap 18 Monterey Take Down Garden Spray 27 Mosquito Bits 23 Most garanites - Trichogramma spp. 20 Mycostop4 1 Mycotrol WPO 26 Olivia's Cloning Gel 34 Orange Guard Fire Ant Control 48 Orange Guard Home Pest Control 48
Monterey Citrus Leafminer Trap & Lure. 18 Monterey Garden Insect Spray. 20 Monterey Peach Tree Borer Trap 18 Monterey Take Down Garden Spray. 27 Mosquito Bits. 23 Moth Egg Parasites - Trichogramma spp. 20 Mycostop4 1 Mycotrol WPO 26 Olivia's Cloning Gel 34 Orange Guard Fire Ant Control 48 Orange Guard Home Pest Control 48 Organic JMS Stylet-Oil 24 OxiDate 2.0. 43 OxiPhos 41
Monterey Citrus Leafminer Trap & Lure. 18 Monterey Garden Insect Spray. 20 Monterey Peach Tree Borer Trap 18 Monterey Take Down Garden Spray. 27 Mosquito Bits. 23 Moth Egg Parasites - Trichogramma spp. 20 Mycostop4 1 Mycotrol WPO 26 Olivia's Cloning Gel 34 Orange Guard Fire Ant Control 48 Orange Guard Home Pest Control 48 Organic JMS Stylet-Oil 24 OxiDate 2.0. 43 OxiPhos 41 Perma-Guard Crawling Insect Control 49
Monterey Citrus Leafminer Trap & Lure. 18 Monterey Garden Insect Spray. 20 Monterey Peach Tree Borer Trap 18 Monterey Take Down Garden Spray. 27 Mosquito Bits. 23 Moth Egg Parasites - Trichogramma spp. 20 Mycostop4 1 Mycostop4 1 Mycotrol WPO 26 Olivia's Cloning Gel 34 Orange Guard Fire Ant Control 48 Orange Guard Home Pest Control 48 Organic JMS Stylet-Oil 24 OxiDate 2.0. 43 OxiPhos 41 Perma-Guard Crawling Insect Control 49 Pest Wizard Assorted Sticky Traps. 18
Monterey Citrus Leafminer Trap & Lure. 18 Monterey Garden Insect Spray. 20 Monterey Peach Tree Borer Trap 18 Monterey Take Down Garden Spray. 27 Mosquito Bits. 23 Moth Egg Parasites - Trichogramma spp. 20 Mycostop4 1 Mycostop4 1 Mycotrol WPO 26 Olivia's Cloning Gel 34 Orange Guard Fire Ant Control 48 Orange Guard Home Pest Control 48 Organic JMS Stylet-Oil 24 OxiDate 2.0. 43 OxiPhos 41 Perma-Guard Crawling Insect Control 49 Pest Wizard Assorted Sticky Traps. 18 Pest Wizard Blue-Yellow Card Trap 17
Monterey Citrus Leafminer Trap & Lure. 18 Monterey Garden Insect Spray. 20 Monterey Peach Tree Borer Trap 18 Monterey Take Down Garden Spray. 27 Mosquito Bits. 23 Moth Egg Parasites - Trichogramma spp. 20 Mycostop4 1 Mycotrol WPO 26 Olivia's Cloning Gel 34 Orange Guard Fire Ant Control 48 Orange Guard Home Pest Control 48 Organic JMS Stylet-Oil 24 OxiDate 2.0. 43 OxiPhos 41 Perma-Guard Crawling Insect Control 49 Pest Wizard Assorted Sticky Traps. 18 Pest Wizard Blue-Yellow Card Trap 17 Pest Wizard Green Sticky Traps. 18
Monterey Citrus Leafminer Trap & Lure.18Monterey Garden Insect Spray.20Monterey Peach Tree Borer Trap18Monterey Take Down Garden Spray.27Mosquito Bits.23Moth Egg Parasites - Trichogramma spp.20Mycostop41Mycotrol WPO26Olivia's Cloning Gel34Orange Guard Fire Ant Control48Orange Guard Home Pest Control48Organic JMS Stylet-Oil24OxiDate 2.0.43OxiPhos41Perma-Guard Crawling Insect Control49Pest Wizard Assorted Sticky Traps.18Phydura39
Monterey Citrus Leafminer Trap & Lure. 18 Monterey Garden Insect Spray. 20 Monterey Peach Tree Borer Trap 18 Monterey Take Down Garden Spray. 27 Mosquito Bits. 23 Moth Egg Parasites - Trichogramma spp. 20 Mycostop4 1 Mycotrol WPO 26 Olivia's Cloning Gel 34 Orange Guard Fire Ant Control 48 Orange Guard Home Pest Control 48 Organic JMS Stylet-Oil 24 OxiDate 2.0. 43 OxiPhos 41 Perma-Guard Crawling Insect Control 49 Pest Wizard Assorted Sticky Traps. 18 Pest Wizard Blue-Yellow Card Trap 17 Pest Wizard Green Sticky Traps. 18

Prestop WG PureCrop1	
PyGanic Gardening	
Red Scale Parasite - <i>Aphytis melinus</i>	
Regalia	
Repeater & Little Pete Multiple Catch Mouse Traps	
Revenge Fly Beater & Odor Reducer	
Revenge Pantry Moth Trap	
Root Guard Gopher Wire Baskets	
RootShield Home & Garden	
RootShield Plus Granules & RootShield Plus WP	
Rove Beetle - <i>Dalotia coriaria</i>	
SaferGro Supergro, 1-0-4	
SaniDate 5.04	
SCD Probiotics Barn Kleaner	
Scentry Wing Trap	
Self-Mixing Hose End Sprayer	
Serenade Garden Disease Control	
Slug Gone	
Sluggo Plus	
Sluggo	
Snailer Snail & Slug Trap	
SNS WeedRot	
SNS-217 and SNS-217C	2
SO Essentials Insect Repellent	5
Spider Mite Destroyer - <i>Feltiella acarisuga</i>	
Spider Mite Destroyer - Stethorus punctillum	
Sticky Traps	1
Stiky Strips Yellow Insect Traps	1
SuffOil-X	2
Summerset AllGuard	
Suståne Spring Weed & Feed, 9-0-0	3
Terro Ant Baits	
The Smart Mouse Trap	4
ThermX-70 Natural Wetting Agent	4
Thrips & Whitefly Predator - Amblyseius swirskii	
Thrips Predator - Amblyseius cucumeris	
Water Conditioner	4
WeedGuardPlus Organic - Heavy Weight Rolls	
Whitefly Parasite - Encarsia formosa	
Whitefly Parasite - Eretmocerus eremicus	
Whitefly Predator - Delphastus catalinae	
Yellow Stiky Tape	

COMPANY INFORMATION



ASK THE EXPERTS

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

AUTO SHIP PROGRAM

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

PAYMENT OPTIONS

Credit Cards (ARBICO accepts all major credit cards) and PayPal.

Mail Checks or Money Orders To:

ARBICO Organics, 10831 N. Mavinee Dr., Ste. 185, Oro Valley, AZ 85737-9531 We do not accept cash via mail.

ACCREDITED BUSINESS LOCAL First ARIZONA AMERICANHOR AMERICANHOR PROUD MEMBER

CUSTOMER SERVICE

All phone calls answered by a live person during regular business hours: Monday through Friday, 8:00 AM - 5:00 PM (Arizona Time Zone) • Se habla Español

Toll Free: 800-827-2847 International calls: 520-825-9785 Fax: 520-825-2038

CRITICAL INFORMATION FOR CERTIFIED ORGANIC GROWERS

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

Visit Our Retail Store! 10831 N. Mavinee Dr., Ste. 185 Oro Valley, AZ 85737-9531 800-827-2847 Please call for product availability.

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

OUR SATISFACTION GUARANTIES

For products other than live insects: If for any reason you are not satisfied with any of our products other than live insects, you can return the item(s) to us within 30 days in accordance with our Return Policy at <u>www.arbico-organics/category/</u> <u>return-policy</u>. Our Customer Care personnel will be happy to assist you with returns.

For live insects: We guarantee that you will receive live beneficial insects (mites and beneficial nematodes). If your insects perish en route, we will gladly send you a replacement order. But we cannot accept returns or make refunds for other reasons since these are perishable products with a limited lifespan and cannot be resold. We cannot guarantee results with live insects since we have no control over how the product is applied, the extent of the problem, and other variables. But if you are not satisfied with your results, we will cancel any unshipped orders and refund the portion of any prepayment that applies to unshipped orders.



Limitations and Disclaimers

This publication is designed and produced by ARBICO Organics solely for informational purposes. Reasonable efforts have been made to provide accurate information, but errors may occur. All insect quantities are approximate (and the "double tilde" symbol \approx so indicates). All prices are subject to change without notice. Product specifications are provided by the manufacturers and are also subject to change without notice. Photographs are for illustrative purposes only.

Notwithstanding any other statements in this catalog, all warranties, express and implied, including warranties of merchantability and fitness for a particular purpose, are hereby disclaimed and excluded. By placing an order with ARBICO, buyer agrees that the limited remedies described in "Our Satisfaction Guaranties" are the sole and exclusive remedies available to buyer. All damages, including incidental and consequential damages, are hereby excluded.



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"We've been growing Fly Eliminators in our insectary for over 40 years. Join the 1,000's of satisfied ARBICO customers who use Fly Eliminators for fly control year after year!"

Sheri Herrera de Frey, Vice President, ARBICO Organics™

Only \$16.95* Per Shipment for 2-5 Horses USPS Shipping Included in <u>Prices!**</u>

Number of Horses/Animals	Units Suggested ⁺	Value Pricing
1	1/4 Unit	\$13.95
2 - 5	1/2 Unit	\$16.95
6 - 10	1 Unit	\$26.95
11 - 15	1 1/2 Units	\$36.95
16 - 20	2 Units	\$48.95
21 - 25	2 1/2 Units	\$59.95
26 +	Please Call 1-800-827-2847	

*VIP Pricing Valid Through Dec. 31, 2019. **USPS shipping included up to 5 units.

¹These are units of measurement, not warranties or guarantees of performance. The total seasonal cost of Fly Eliminators¹⁰ depends on the recommended number of shipments which may be different than what competitors may recommend. We recommend releasing a shipment every 2-4 weeks throughout the fly season, but releases ranging from 1-6 weeks are not uncommon. Customer experiences may vary. The quantity required and frequency of application can differ according to region, size and condition of property or stables, severity of fly problem, neighbors, manure management, number of animals and start date of program. All warranties, express or implied are disclaimed. One unit bag shown. © 2019 Arizona Biological Contol, linc.





Expires: 12/31/2019 • Minimum \$75 purchase. Cannot be used on Fly Eliminators • Cannot be used with any other offers Cannot be used on items with free shipping



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ELIMINATORS

