

# ARBICO *organics*<sup>®</sup>

NATURAL & ORGANIC IPM SOLUTIONS

FALL/WINTER CATALOG 2020



## Your Year-Round Growing Partner

- Predatory Insects, Mites & Organisms
- Pest Insect Traps & Lures
- Biorational Insecticides
- Beneficial Nematodes
- Amendments & Fertilizers
- Disease & Pathogen Control
- Weed Control
- Household Pest Control



Serving Growers Since 1979.

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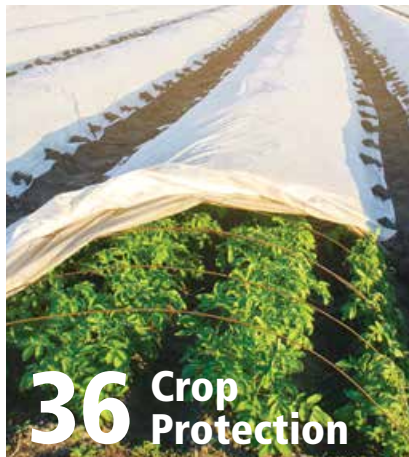
## BRANDS YOU CAN TRUST



**2021**  
**VIP SPECIAL PRICING**  
**THROUGH DEC. 31, 2020**



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Guaranteed Live Delivery



Customer Service



Commitment to Quality



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## How To Contact Us:

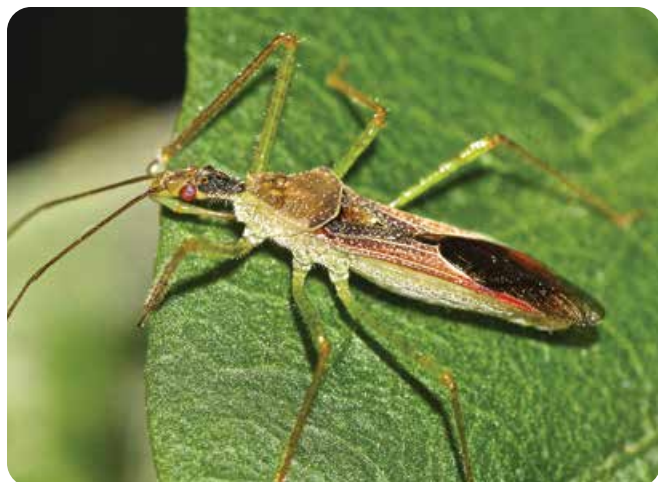
**800-827-2847**

[www.arbico-organics.com](http://www.arbico-organics.com)

[customercare@arbico.com](mailto: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

## 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 sq. ft. area every 2-3 weeks. Release preventively or at the first sign of an infestation. For heavy infestations, release 500-1,000 eggs weekly in no more than 2,000 square feet. Release 5-10 thousand eggs biweekly per acre. Shipped as eggs, assassin bugs will typically hatch in under a week.

**Temperature:** 55-110°F

**Relative Humidity:** 10-75%

<b>1000105</b>	≈250 Eggs	<b>\$25.00</b>
<b>1000106</b>	≈500 Eggs	<b>\$40.00</b>
<b>1000107</b>	≈1,000 Eggs	<b>\$65.00</b>

Larger sizes available.

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



### ADVANTAGES

- Predatory in all life stages
- Shipped as adults, ready to consume on arrival
- Good for field crops and greenhouses
- Aggressive against thrips

## Minute Pirate Bug - *Orius insidiosus*

Excellent General Predator In Field Crops & Greenhouses.

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

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



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

**Temperature:** 64-82°F

**Relative Humidity:** Moderate ≈60%

<b>1117001</b>	≈500 Count	<b>\$53.00</b>
<b>1117003</b>	≈1,000 Count	<b>\$88.00</b>
<b>1117004</b>	≈2,000 Count	<b>\$154.00</b>

**Overnight Shipping Required**



## 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 Lacewing Eggs Programs:

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

### SUGGESTED USE (Depending upon level of infestation):

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

### Larvae & Adults Require OVERNIGHT Shipping

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

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



## Ladybugs & Generalists in General

Everyone loves a ladybug; but, unfortunately, they are not always commercially available. Mother Nature is the ultimate decision-maker as whether or not we will have a steady supply. For this reason, if you are interested in ladybugs, we encourage you to consider one of our other generalist insects. Generalists are predatory insects that eat a wide variety of insects and we have several great options for you to choose from. **Assassin Bugs, Green Lacewings and Minute Pirate Bugs** are all general predators. When choosing a generalist, some things to consider are ambient temperatures and humidity levels and the different life stages we offer. For example, if choosing Green Lacewing *eggs*, allow time for them to hatch and achieve their maximum efficacy. For assistance in selecting a generalist, please call us for a free consultation.

## Ladybugs - *Hippodamia convergens*

Ladybugs Consume A Vast Quantity Of Soft-Bodied Insects.

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

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

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

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

1112500	≈500 Adults	\$8.98
1112525	≈1,500 Adults	\$14.98

Larger sizes available.

**Subject to seasonal availability.**

**Expedited Shipping Required**



## Aphid Predator - *Aphidoletes aphidimyza*

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

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

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

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

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

<b>1101001</b>	≈1,000 Pupae	<b>\$80.00</b>
<b>1101003</b>	≈3,000 Pupae	<b>\$207.00</b>
<b>1101002</b>	4 x 250 Pupae in Blister Packs	<b>\$60.00</b>

**Overnight Shipping Required**



*Aphidoletes aphidimyza*

## Aphid Parasite - *Aphidius colemani*

Exceptional In Greenhouses Producing Vegetables & Ornamentals.

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

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

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

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

<b>1101302</b>	≈500 Mummies	<b>\$43.00</b>
<b>1101301</b>	≈1,000 Mummies	<b>\$54.00</b>
<b>1101303</b>	≈5,000 Mummies	<b>\$189.00</b>
<b>1101304</b>	≈10,000 Mummies	<b>\$340.00</b>

**Overnight Shipping Required**



*Aphidius colemani*

## Aphid Parasite - *Aphelinus abdominalis*

These Ravenous Predators Will Eat & Parasitize Aphid Nymphs!

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

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

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

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

<b>1101101</b>	≈250 Mummies	<b>\$80.00</b>
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**Overnight Shipping Required**



*Aphelinus abdominalis*

## Aphid Parasite - *Aphidius ervi*

This Non-Stinging Parasitic Wasp Attacks Larger Aphid Species.

*Image Citation: Alex Wild*

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

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

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

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

<b>1001001</b>	≈250 Mummies	<b>\$65.00</b>
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**Overnight Shipping Required**



*Aphidius ervi*



## 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 Lacewings 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 25) or Neem based sprays.
7. Clean tools and equipment as well as greenhouse structures between growing seasons. See Cleaning & Sanitizing on page 54.

## Whitefly Parasite - *Encarsia formosa*



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

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



**DESCRIPTION:** The whitefly parasite (parasitoid) is a tiny wasp that hosts 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%

<b>1132001</b>	≈1,000 Count	<b>\$32.50</b>
<b>1132002</b>	≈3,000 Count	<b>\$46.00</b>
<b>1132003</b>	≈5,000 Count	<b>\$60.00</b>

**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 hosts feeds and parasitizes the scale (nymphs) of whiteflies. The time from egg laying to adult emergence is approximately 22 days. Can be used with Green Lacewings.

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

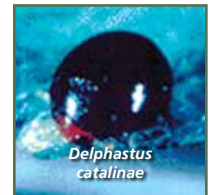
**Temperature:** Moderate 62-82°F **Relative Humidity:** Minimum 40%

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

**Overnight Shipping Required**

## 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 ≈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

<b>1126001</b>	≈100 Count	<b>\$47.50</b>
<b>1126003</b>	≈200 Count	<b>\$74.95</b>
<b>1126002</b>	≈1000 Count	<b>\$162.00</b>

**Overnight Shipping Required**

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





## 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 30).
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.



*Dalotia coriaria*  
(= *Atheta coriaria*)

**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%

<b>1101329</b>	≈100 Adults	<b>\$18.50</b>
<b>1101330</b>	≈500 Adults	<b>\$54.00</b>
<b>1101331</b>	≈1,000 Adults	<b>\$78.00</b>
<b>1101332</b>	≈3,000 Adults	<b>\$170.00</b>
<b>1101334</b>	≈5,000 Adults	<b>\$250.00</b>

**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.



*Stratiolaelaps scimitus*  
(= *Hypoaspis miles*)

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

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

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

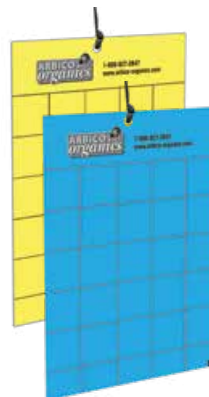
<b>1154000</b>	≈12,500 Count	<b>\$19.00</b>
<b>1154002</b>	≈25,000 Count	<b>\$30.00</b>
<b>1154005</b>	≈50,000 (2 x 25,000)	<b>\$50.00</b>
<b>1154010</b>	≈125,000 in 5 Liter Bag	<b>\$130.00</b>

**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 20-22 for more options.**



## 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:

<b>1101312</b>	≈25,000 in Tube	<b>\$68.00</b>
<b>1101319</b>	≈50,000 in Tube	<b>\$120.00</b>
<b>1101311</b>	≈125,000 in 5 Liter Bag	<b>\$240.00</b>
<b>1101309</b>	≈200,000 Bulk	<b>\$340.00</b>

### CONTROLLED RELEASE:

<b>1101317</b>	≈50,000 in 200 Mini Sachets w/Hooks	<b>\$135.00</b>
<b>1101308</b>	≈62,500 in 250 Mini Sachets w/Hooks	<b>\$170.00</b>
<b>1101318</b>	≈62,500 in 500 Mini Sachets on Sticks	<b>\$230.00</b>
<b>1101306</b>	≈125,000 in 500 Mini Sachets w/Hooks	<b>\$250.00</b>
<b>1101316</b>	≈125,000 in 1,000 Mini Sachets w/Hooks	<b>\$350.00</b>
<b>1101314</b>	≈125,250 in 6 x 328 ft. Strips of Sachets	<b>\$475.00</b>
<b>1101315</b>	≈250,000 in 1,000 Mini Sachets w/Hooks	<b>\$480.00</b>

**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 (see page 21).

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

### BULK SIZES:

<b>1152207</b>	≈25,000 in Bran/Vermiculite Mix	<b>\$30.00</b>
<b>1152204</b>	≈50,000 in Bran/Vermiculite Mix	<b>\$38.50</b>
<b>1152224</b>	≈50,000 in Vermiculite	<b>\$45.00</b>
<b>1152205</b>	≈100,000 in Bran	<b>\$60.00</b>
<b>1152206</b>	≈250,000 in Bran/Vermiculite Mix	<b>\$115.00</b>
<b>1152223</b>	≈250,000 in Vermiculite	<b>\$120.00</b>
<b>1152209</b>	≈500,000 in Bran/Vermiculite Mix	<b>\$200.00</b>

### CONTROLLED RELEASE:

<b>1152225</b>	≈125,000 in 500 Mini Sachets on Sticks	<b>\$105.00</b>
<b>1152201</b>	≈200,000 in 200 Sachets w/Hooks	<b>\$80.00</b>
<b>1152221</b>	≈200,000 in 400 Mini Sachets w/Hooks	<b>\$90.00</b>
<b>1152222</b>	≈250,000 in 1,000 Sachets w/Hooks	<b>\$135.00</b>
<b>1152226</b>	≈250,000 in 1,000 Mini Sachets on Sticks	<b>\$140.00</b>
<b>1152228</b>	≈500,000 in 500 Sachets w/Hooks	<b>\$185.00</b>
<b>1152227</b>	≈500,000 in 2,000 Mini Sachets on Sticks	<b>\$275.00</b>
<b>1152220</b>	≈1,602,000 in 6 x 525 ft. Strips of Sachets	<b>\$600.00</b>

**Overnight Shipping Required**



Thrips Infestation

## 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 49) or backpack sprayer. See pages 17-19 for more information.



## 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.

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

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

**BULK SIZES:**

<b>1101324</b>	≈25,000 in Tube	<b>\$140.00</b>
<b>1101327</b>	≈50,000 in 1 Liter Bottle	<b>\$165.00</b>
<b>1101321</b>	≈125,000 in 5 Liter Bag	<b>\$375.00</b>

**CONTROLLED RELEASE:**

<b>1101323</b>	≈25,000 in 200 Mini Sachets w/Hooks	<b>\$150.00</b>
<b>1101350</b>	≈25,000 in 200 Mini Sachets on Sticks	<b>\$162.00</b>
<b>1101325</b>	≈62,500 in 250 Sachets w/Hooks	<b>\$225.00</b>
<b>1101322</b>	≈125,250 in 6 x 328 ft. Strips of Sachets	<b>\$670.00</b>
<b>1101355</b>	≈125,000 in 1,000 Mini Sachets on Sticks	<b>\$690.00</b>

**Overnight Shipping Required**



*Amblyseius andersoni*

## Mite Predator - *Galendromus occidentalis*

**Excellent For Hot & Dry Inland Areas!**

*Image Citation: Photo by E. Beers, WSU- TREC*

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

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

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

<b>1151202</b>	≈1,000 Count	<b>\$43.00</b>
<b>1151220</b>	≈10,000 Count	<b>\$160.00</b>
<b>1151221</b>	≈50,000 Count	<b>\$450.00</b>

**Overnight Shipping Required**



*Galendromus occidentalis*

## 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.

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

<b>1151203</b>	≈1,000 Count	<b>\$38.50</b>
<b>1156301</b>	≈5,000 Count	<b>\$80.00</b>
<b>1156401</b>	≈10,000 Count	<b>\$142.00</b>

**Overnight Shipping Required**



*Mesoseiulus longipes*

## Mite Predator - *Neoseiulus (=Amblyseius) californicus*

**Good For Areas Where Temperatures Fluctuate Greatly Such As Deserts.**

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

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

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

<b>1151201</b>	≈1,000 Count	<b>\$35.00</b>
<b>1151208</b>	≈2,000 Count	<b>\$43.00</b>
<b>1151209</b>	≈5,000 Count	<b>\$65.50</b>
<b>1151210</b>	≈10,000 Count	<b>\$106.00</b>
<b>1151212</b>	≈25,000 Count	<b>\$125.00</b>
<b>1151215</b>	≈25,000 in 200 Mini Sachets	<b>\$162.00</b>

**Overnight Shipping Required**



*Neoseiulus (=Amblyseius) californicus*



## Mite Predator - *Neoseiulus (=Amblyseius) fallacis*

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

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

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

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

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

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

**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 Elyahu Ltd.

**TARGET:** Two spotted spider mites and various other mites.

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

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

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

**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	<b>\$144.00</b>
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**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	<b>\$92.00</b>
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**Overnight Shipping Required**



# MEALYBUG/SCALE CONTROL

## Mealybug Parasitoid - *Anagyrus spp.*

Stop Destructive Mealybugs With This Beneficial Parasitoid.

Image Citation: All rights reserved to BioBee Sde Elyahu Ltd.

**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%

<b>1132060</b>	≈100 Mummies	<b>\$32.00</b>
<b>1132061</b>	≈200 Mummies	<b>\$60.00</b>
<b>1132072</b>	≈500 Mummies	<b>\$120.00</b>

Renaming in progress and permits pending for use in the USA.

**Overnight Shipping Required**



## 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%

<b>1122001</b>	≈10,000 Adults	<b>\$27.00</b>
<b>1122002</b>	≈25,000 Adults	<b>\$57.00</b>
<b>1122003</b>	≈50,000 Adults	<b>\$109.00</b>

**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.

**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%

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

**Overnight Shipping Required**



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

Voracious Adults & Larvae Feed On Scale & Other Pests!

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

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

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

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

<b>1121501</b>	≈100 Count	<b>\$85.50</b>
<b>1121502</b>	≈250 Count	<b>\$160.00</b>

**Overnight Shipping Required**





## Natupol Bumblebee Hives

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

**TARGET:** For use indoors in greenhouses, hoopouses and other indoor growing.

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



**SUGGESTED USE:**

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

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

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

Covers 1,000-15,000 sq. ft. and last for about 7-8 weeks.

<b>1530111</b>	Natupol Excel	<b>\$230.00</b>
<b>1530112</b>	Natupol Excel Startup	<b>\$165.00</b>

**UPS Next Day Shipping Required**

**Cannot be shipped to the following states:** HI, OR, PR, VA

Shipments to California require that a permit application be filled out & sent to the California Department of Food & Agriculture. Please call if more information is needed.

## Bee-Scent™



**Bring More Bees To Your Crops With This WSDA Certified Organic Attractant.**

**TARGET:** Honeybees.

**DESCRIPTION:** Applying this non-toxic, pheromone-based liquid attractant to your plants will entice honeybees to linger and forage on them. This swell in bee activity boosts pollen transfer, leading to enhanced pollination. Initial application imprints a foraging pattern on bees and they will return if their pollination window was shortened by weather. Bee-Scent contains no hive or bee products. Environmentally sound for bees, crops and applicators.



**SUGGESTED USE:** Apply with standard ground or aerial application units; no additives or equipment modifications needed. Two applications are recommended: first at early bloom (5-30% bloom) and second 5-8 days later (70-100% bloom). On long-blooming crops, treatments at regular intervals throughout the flowering season may be necessary. Early morning application is important. Weather must be favorable to bee flight – sunny and warmer than 60°F, with winds less than 15 mph. Standard application rate is 2 qts/acre.

<b>1231200</b>	Bee-Scent - 4 oz.	<b>\$8.00</b>
<b>1231202</b>	Bee-Scent - 8 oz.	<b>\$12.00</b>
<b>1231204</b>	Bee-Scent - 16 oz.	<b>\$19.00</b>

Case sizes available.

## SMALL HIVE BEETLE CONTROL

### *Heterorhabditis indica*



**Protect Your Hives From Small Hive Beetle.**

*Image Citation: Jessica Louque, Smithers Viscient*

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

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



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

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

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



## 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 ≈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
<b><i>Trichogramma brassicae</i> - European cabbage butterfly, cutworm, corn earworm, European corn borer, cabbage looper, armyworm</b>		
1131910	3 Tabs	\$15.00
1131903	6 Tabs	\$20.00
1131911	1 Card (30 Tabs)	\$30.00
<b><i>Trichogramma minutum</i> - trees, bogs, more common on the East Coast</b>		
1129001	3 Tabs	\$15.00
1129003	6 Tabs	\$20.00
1129010	1 Card (30 Tabs)	\$30.00
<b><i>Trichogramma platneri</i> - orchards, more common West of the Rockies</b>		
1130001	3 Tabs	\$15.00
1130003	6 Tabs	\$20.00
1130030	1 Card (30 Tabs)	\$30.00
<b><i>Trichogramma pretiosum</i> - row crops, vineyards</b>		
1131021	3 Tabs	\$15.00
1131003	6 Tabs	\$20.00
1131022	1 Card (30 Tabs)	\$30.00

See online for volume & program prices.

Free 2nd Day Shipping

\*FREE SHIPPING in the contiguous 48 states. Ships Monday - Thursday via 2nd Day. Please allow for a minimum of 24 hours to process orders. Orders received after 8:00 AM on Thursday will ship the following Monday. Upgraded Overnight shipping will incur a \$10 upcharge.

### BT NOW®

An Extremely Effective Biopesticide That Controls Crop-Damaging Caterpillars.

**TARGET:** Armyworms, bagworms, borers, budworms, caterpillars, earworms, leafrollers, loopers, Gypsy Moth larvae, webworms and more.

**DESCRIPTION:** Uses a strain of *Bacillus thuringiensis kurstaki* to provide broad spectrum control for a long list of pests that feed on a wide variety of plants. Carefully monitor your crops to identify target pest infestations and apply as soon as insects are found or when there are first signs of feeding. Water-based formula, stabilized with UV inhibitors with low resistance potential. Won't harm pollinators or beneficials. 4-hour REI. Compatible with many commonly used fertilizers, pesticides and adjuvants.

**SUGGESTED USE:** Apply when larvae are small, newly hatched and actively feeding. Do not apply through any irrigation system. Can be used diluted or un-diluted. Dilution with minimal amounts of water will improve coverage. The amount of water needed for a diluted application will depend on crop size, weather, spray equipment and local experience. Please see manufacturer's label for pest and crop specific application rates and guidelines.

1201220      BT NOW - 1 Gallon Concentrate      \$79.99  
Cannot be shipped to the following states: CA, HI, DC



### 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 (see page 48) 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



## 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. Now available in no-dilute Ready-To-Use and Ready-To-Spray versions.

<b>1201213</b>	Monterey B.t. - 32 oz. RTU	<b>\$13.50</b>
<b>1201214</b>	Monterey B.t. - 32 oz. Hose-End RTS	<b>\$24.49</b>
<b>1201210</b>	Monterey B.t. Concentrate - 1 Pint	<b>\$13.99</b>
<b>1201211</b>	Monterey B.t. Concentrate - 1 Quart	<b>\$22.99</b>
<b>1201212</b>	Monterey B.t. Concentrate - 1 Gallon	<b>\$74.99</b>

**Cannot be shipped to the following states:**

**SKUs 1201210, 1201211, 1201212, 1201214:** ND, WY and **SKU 1201213:** AR, ND, WY



### BONIDE® Thuricide

*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.

<b>1201205</b>	BONIDE Thuricide RTU - 1 Quart	<b>\$11.90</b>
<b>1201206</b>	BONIDE Thuricide RTU - 1 Gallon	<b>\$36.99</b>
<b>1201201</b>	BONIDE Thuricide Liquid Concentrate - 8 oz.	<b>\$10.97</b>
<b>1201202</b>	BONIDE Thuricide Liquid Concentrate - 16 oz.	<b>\$14.99</b>



### 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.

<b>1257907</b>	Monterey Garden Insect Spray - 32 oz. RTU	<b>\$13.49</b>
<b>1257900</b>	Monterey Garden Insect Spray Conc.- 1 Pint	<b>\$19.99</b>
<b>1257905</b>	Monterey Garden Insect Spray Conc.- 1 Quart	<b>\$29.49</b>
<b>1257910</b>	Monterey Garden Insect Spray Conc.- 1 Gallon	<b>\$99.49</b>

**Cannot be shipped to the following states:** DC

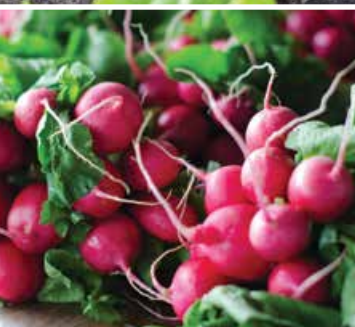


*Gypsy Moth Caterpillar*



# Your Multi-Pest Solution For Optimal Growing

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



**NemaSeek Hb  
Beneficial Nematodes™**

**NemAttack Sf  
Beneficial Nematodes™**

**NemAttack Sc  
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 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.

**See pages 17-19 for more information.**





## What Are Beneficial Nematodes?

Beneficial Nematodes are live, microscopic organisms (non-segmented roundworms) that occur naturally in soil throughout the world.

They are parasitic to insect pests that typically have a developing (larval or pupal) stage of life in the soil; however, they have been known to also parasitize above ground stages of adults, nymphs and larvae.

## How Do Beneficial Nematodes Work?

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
- Rootworms
- Leafminers
- Flies
- Thrips
- 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.

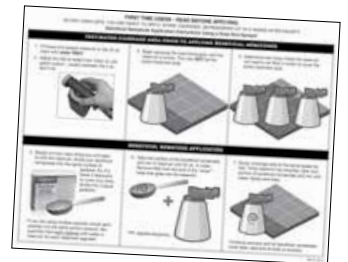
## How Do I Apply Beneficial Nematodes?

**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 49), 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 conjunction 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.

# BENEFICIAL NEMATODES

## 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!



## NemaSeek™ *Heterorhabditis indica* (Hi) Beneficial Nematodes

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



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

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



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

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



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

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



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

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



## NEMATODE SELECTION CHART – Choose Variety By Pest

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



## Beneficial Nematodes

- ▲ = NemaSeek™ *Heterorhabditis bacteriophora* (Hb)
- = NemaAttack™ *Steinernema feltiae* (Sf)
- = NemaAttack™ *Steinernema carpocapsae* (Sc)
- ★ = NemaAttack™ *Steinernema riobrave* (Sr)
- ◆ = NemaSeek™ *Steinernema kraussei* (Sk)
- ◈ = NemaSeek™ *Heterorhabditis indica* (Hi)

SINGLE SPECIES		
SKU	Size	Price
▲ NemaSeek <i>Heterorhabditis bacteriophora</i>		
1220300	≈5 million	\$36.00
1220301	≈10 million	\$42.95
1220302	≈50 million	\$72.00
1221703	≈250 million	\$198.00
1221706	≈500 million	\$270.00
■ NemaAttack <i>Steinernema feltiae</i>		
1220309	≈5 million	\$36.00
1220310	≈10 million	\$42.95
1220311	≈50 million	\$72.00
1221701	≈250 million	\$198.00
1221704	≈500 million	\$270.00
● NemaAttack <i>Steinernema carpocapsae</i>		
1220319	≈5 million	\$36.00
1220320	≈10 million	\$42.95
1220321	≈50 million	\$72.00
1221702	≈250 million	\$198.00
1221705	≈500 million	\$270.00
★ NemaAttack <i>Steinernema riobrave</i>		
1220410	≈5 million	\$36.00
◆ NemaSeek <i>Steinernema kraussei</i>		
1220420	≈5 million	\$36.00
1220421	≈10 million	\$42.95
1220422	≈50 million	\$72.00
1220423	≈250 million	\$198.00
1220424	≈500 million	\$270.00
◈ NemaSeek <i>Heterorhabditis indica</i>		
1220200	≈5 million	\$36.00

COMBO PACKS		
SKU	Size	Price
▲ ● NemaSeek Hb & NemaAttack Sc		
1220331	≈10 mil. per species	\$60.00
1220332	≈50 mil. per species	\$125.00
1221699	≈250 mil. per species	\$340.00
1220335	≈500 mil. per species	\$500.00
▲ ■ NemaSeek Hb & NemaAttack Sf		
1220333	≈10 mil. per species	\$60.00
1220334	≈50 mil. per species	\$125.00
1221700	≈250 mil. per species	\$340.00
1220336	≈500 mil. per species	\$500.00
■ ● NemaAttack Sf & NemaAttack Sc		
1220340	≈10 mil. per species	\$60.00
1220341	≈50 mil. per species	\$125.00
1220342	≈250 mil. per species	\$340.00
1220343	≈500 mil. per species	\$500.00

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

### SIZE & COVERAGE CHART

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

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



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

## OMRI Listed Beneficial Nematodes



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

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

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

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



# 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.

### 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.

<b>1254001</b>	Package of 5 Yellow Traps	<b>\$4.49</b>
<b>1254101</b>	Package of 5 Blue Traps	<b>\$5.50</b>



## Stiky™ Strips Yellow Insect Traps

These Basic Traps Come With A Handy Wire Hanger.

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

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

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

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



## 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 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, use roughly one trap per acre.

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



## Pest Wizard Blue-Yellow Card Trap

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

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

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

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

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

<b>1254201</b>	Blue & Yellow Card Trap - 4 Pack	<b>\$8.99</b>
<b>1254202</b>	Blue & Yellow Card Trap - 10 Pack	<b>\$16.00</b>





## Lock Down Pads

Lock Down Some Really Effective Insect Control With These Pads.

**TARGET:** Aphids, caterpillars, fungus gnats, fruit flies, leaf miners, mealybugs, spider mites, thrips, whiteflies & more.

**DESCRIPTION:** These bright yellow circles of water-resistant plastic are coated on one side in a super-sticky, non-drying adhesive. Once wrapped around a plant, they will grab and hold any insects that dare to approach. To make these traps even more effective, this particular shade of yellow is especially alluring to many soft-bodied insects and draws them in. Can be used in hydroponics or in soil. Multiple sizes made to fit standard pot sizes.

**SUGGESTED USE:** Can be used Cone Up, Cone Down or Basic.

**Cone Up:** Place the pad with the adhesive side facing towards the base of your plant and gently remove the release paper. Overlap the slit on the pad to form the desired shape and size of your cone. **Cone Down:** Same procedure as the Cone Up, except the pad should be placed with the adhesive away from the plant. **Basic:** Lay the pad flat in your pot with the adhesive side either up or down.

<b>1254050</b>	Lock Down Pads - 1.5" Circle (15 pk)	<b>\$7.10</b>
<b>1254051</b>	Lock Down Pads - 3" Circle (15 pk)	<b>\$9.25</b>
<b>1254052</b>	Lock Down Pads - 6" Circle (8 pk)	<b>\$11.40</b>
<b>1254053</b>	Lock Down Pads - 12" Circle (5 pk)	<b>\$15.75</b>



## FlyWeb® Insect Monitor Cards



Made To Be Used In Different Ways For Maximum Trapping Capabilities.

**TARGET:** Thrips & Leafminers are drawn to the blue; Aphids, Whiteflies & Fungus Gnats like the yellow.

**DESCRIPTION:** These sticky traps have been designed to be used in a number of ways: flat, folded into a triangle Delta trap, or torn into smaller sizes. With these format options and the insect-attracting colors, you can trap and monitor a wide range of insect pests. Traps come in yellow/yellow and yellow/blue. They are 4" x 8" and double-sided, with a 1" square grid. Cards are perforated and can easily be torn into mini sizes for smaller spaces and plants.

**SUGGESTED USE:** Fold or tear into desired format. Peel protective cover from one or both sides of the trap. Place or hang trap close to plants. When used in large areas, traps should be placed 10-15 ft apart. Monitor and replace as needed.

<b>1254005</b>	Insect Monitor Cards - Yellow/Blue - 10 Pack	<b>\$10.50</b>
<b>1254006</b>	Insect Monitor Card - Yellow/Yellow - 10 Pack	<b>\$11.00</b>



## 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.

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



## 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.

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



# PEST INSECT TRAPS

## 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.

- |                |  |                 |
|----------------|--|-----------------|
| <b>1259610</b> | Yellow Stiky Tape - 2" wide x 530' long  | <b>\$44.00</b>  |
| <b>1259611</b> | Yellow Stiky Tape - 6" wide x 530' long  | <b>\$90.00</b>  |
| <b>1259612</b> | Yellow Stiky Tape - 10" wide x 530' long | <b>\$125.00</b> |
| <b>1259613</b> | Yellow Stiky Tape - 12" wide x 530' long | <b>\$175.00</b> |

\*Larger quantities available.



*Diaphorina citri*

## Asian Citrus Psyllid (ACP) Detector

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

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

## Codling Moth & Oriental Fruit Moth Trap

This Trap Lures Two Of The Most Damaging Fruit Crop Pests!

- |                |   |               |
|----------------|---|---------------|
| <b>1254600</b> | Codling Moth & Oriental Fruit Moth Trap (2 Traps/2 Lures) | <b>\$8.50</b> |
|----------------|---|---------------|

## BioCare® Codling Moth Trap

Detect & Trap Codling Moths.

- |                |   |                |
|----------------|---|----------------|
| <b>1240301</b> | Codling Moth Trap (2 Traps & 2 Lures)               | <b>\$8.25</b>  |
| <b>1240297</b> | Codling Moth Trap - (2 Traps & 2 Lures) Bundle of 3 | <b>\$27.00</b> |

## Monterey Citrus Leafminer Trap & Lure

Monitor & Trap Damaging Leafminer Species!

- |                |   |              |
|----------------|---|--------------|
| <b>1555638</b> | Monterey Citrus Leafminer Trap & Lure - Pack of 2 | <b>16.99</b> |
|----------------|---|--------------|

## Monterey Peach Tree Borer Trap

An Easy To Install Pheromone Trap Designed To Attract Borers.

- |                |  |                |
|----------------|--|----------------|
| <b>1555640</b> | Monterey Peach Tree Borer Trap (2 Traps & 2 Lures) | <b>\$11.50</b> |
|----------------|--|----------------|

Cannot be shipped to the following states: CO, NM



See full line of Scentry traps & pheromone lures online.

## Stiky™ Tree Wrap



Stop Tree-Crawling Insects In Their Tracks.

**TARGET:** Ants, cankerworms, codling moths, cutworms, earwigs, elm leaf beetles, gypsy moths, procession caterpillars, spotted lanternflies, tent caterpillars, weevils, winter moths and more.



**DESCRIPTION:** This easy-to-use tree wrap will prevent insects from crawling or hopping up your tree to feed on foliage, mate or lay eggs. It's coated on one side with a non-toxic adhesive that is strong enough to catch insects, but not strong enough to capture birds or small animals.

**SUGGESTED USE:** Place around the tree about 3-4 feet above the ground, with the white side out. Wrap around the tree (overlapping so there are no gaps) and fasten to the tree with stick pins or staples (not included). When using on rough bark trees, you'll need to put soft foam or padding under the wrap to prevent insects from crawling under. Remove the white paper that's covering the adhesive and discard. Remove and replace wrap when it is covered in insects or debris.

- |                |   |                |
|----------------|---|----------------|
| <b>1259640</b> | Stiky Tree Wrap - 7" x 36" - 15 ct. box | <b>\$44.99</b> |
|----------------|---|----------------|



## BIOLOGICAL GRUB CONTROL

### NemaSeek™ Hb Beneficial Nematodes

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



Photo Credit: UNL Entomology Department

### Milky Spore Powder

Specific, Long Lasting Larval Control.

**TARGET:** Japanese beetle grubs.

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



In warmer climates, control can occur in 1-3 years (after one application) and in cooler climates, 3-5 years. Can apply with other fertilizers, will not harm animals and can be applied to food crops. For best results, apply with NemaSeek Hb Beneficial Nematodes (see pages 17-19), which will aid in spreading the bacterium to grubs. Store in a cool dry place to maintain shelf life.

**SUGGESTED USE:** Use All-Purpose Dispenser Tube for easy application (see page 49). White chalk carries the bacterium, and the resultant treated area should resemble a checkerboard. Water within about 48 hours for about 15-20 minutes to permeate into soil and do not mow or rake until thoroughly soaked.

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

<b>1216001</b>	Milky Spore Powder - 10 oz.	<b>\$28.60</b>
<b>1216040</b>	Milky Spore Powder - 40 oz.	<b>\$83.50</b>
<b>1216045</b>	Milky Spore Powder - 25 lb. Drum	<b>\$800.00</b>
<b>1216049</b>	Milky Spore Powder - 50 lbs. (2 x 25 lb. Drums)	<b>1,500.00</b>
<b>1216052</b>	All-Purpose Dispenser Tube	<b>\$14.50</b>

Cannot be shipped to the following states: CA, OR, WA

### Where Are Japanese Beetles Found?

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

### Milky Spore Granular

A New Formulation For Use In A Drop Spreader

**TARGET:** Japanese beetle grubs.

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



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

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

\*Call for freight quote.

Cannot be shipped to the following states: OR, WA

## MULTI-PURPOSE

### 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.

- |                |                                      |                |
|----------------|--------------------------------------|----------------|
| <b>1274107</b> | Organic JMS Stylet-Oil - 1 Gallon    | <b>\$36.00</b> |
| <b>1274108</b> | Organic JMS Stylet-Oil - 2.5 Gallons | <b>\$51.00</b> |

\*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 pre-emulsified creates a lighter oil that dries faster, will not cause phytotoxicity, burn or undue stress, leaves no toxic residue on plants and dilutes easily with water.



**SUGGESTED USE:** Can be used with a wide variety of crops indoors or outdoors. 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.

- |                |                                     |                 |
|----------------|-------------------------------------|-----------------|
| <b>1332805</b> | SuffOil-X - 2.5 Gallons             | <b>\$65.00</b>  |
| <b>1332806</b> | SuffOil-X - Case of 2 ct./2.5 Gals. | <b>\$117.00</b> |

Larger sizes available.

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

**Cannot be shipped to the following states:** AK, DC

### 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.

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

Larger sizes available.

### Eco-1® 40



**Strong Control That's Gentle Enough To Use On Edible And Medicinal Plants.**

**TARGET:** Aphids, whiteflies, two-spotted spider mites and fungal diseases like Powdery Mildew.

**DESCRIPTION:** Eco-1 40 contains food-grade 31% Linseed Oil with 8% Rosemary and 1% Thyme Oils. This potent OMRI listed mixture will control, via suffocation, a wide range soft-bodied insects and mites in all their life stages. Also a powerful tool against fungal diseases. Can be used on plants grown for feed, fuels, fiber or medicinal purposes. No REI or PHI. No adjuvants, surfactants or penetrants needed. FIFRA 25(b) exempt from EPA registration.



**SUGGESTED USE:** For best results, do not mix with cold water (less than 45°F). Aphids: Apply every 7-12 days. 1 1/2-3 fl oz/gal water (1-2 gals/100 gals water) for dormant applications. 3-6 fl oz/gal water (2 1/2-5 gals/100 gals water) for active. Whiteflies: 3-6 fl oz/gal water every 7-12. 2 1/2-5 gals/100 gals water every 7-14 days. Mites: 1-1 1/2 fl oz/gal water every 5-7 days. 3/4-1 gal/100 gals water every 7-14 days. Powdery Mildew: 3-6 fl oz/gal water every 3-14 days. 2 1/2-5 gals/100 gals water every 7-14 days.

- |                |                                   |                 |
|----------------|-----------------------------------|-----------------|
| <b>1458140</b> | Eco-1 40 - Concentrate - 1 Gallon | <b>\$269.99</b> |
|----------------|-----------------------------------|-----------------|

**Cannot be shipped to the following states:** AR, CT, DC, ID, IA, KS, KY, LA, ME, MI, MS, NE, NV, NH, ND, OR, RI, UT, VT, VA, WI

## BEAUVERIA BASSIANA

### BioCeres® WP



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

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

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

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

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

Cannot be shipped to the following states: CA



### *Beauveria bassiana*

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

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

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

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

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

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

#### Application Rates of BotaniGard ES

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

#### Application Rates of BotaniGard 22WP

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

#### BotaniGard ES

**1332801** BotaniGard ES - 1 Quart **\$80.00**  
**1332799** BotaniGard ES - 1 Gallon **\$260.00**

#### BotaniGard 22WP

**1332800** BotaniGard 22WP - 1 lb. Powder **\$85.00**

Case sizes available.

**Shipping Restrictions:** Cannot ship via US Mail.



### Mycotrol® WPO



A New Formulation For A Reliable Favorite!

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

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

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

**1332785** Mycotrol WPO - 1 lb. **\$100.00**  
**1332795** Mycotrol WPO - 1 lb. (Case of 12) **\$1,080.00**

Ships via UPS Ground & FedEx Ground ONLY.





## OTHER BIORATIONAL

### Grandevo® CG & Grandevo® WDG

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

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

**DESCRIPTION:** Grandevo uses the bacterium *Chromobacterium subsugae* strain PRAA4-1<sup>T</sup> 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.

1332953	Grandevo CG - 1 lb.	\$37.50
1332954	Grandevo CG - 4 lbs.	\$130.00
1332952	Grandevo WDG - 6 lbs.	\$155.00



### PFR-97™ 20% WDG

Directed Fungal Growth Is The Key To This Remarkable Insecticide.

**TARGET:** Aphids, black vine & root weevils, broad, russet & spider mites, leafminers, *Coleoptera* grubs & larvae, *Lepidoptera* caterpillars & larvae, mealybugs, plant bugs, phorid & scarid flies, thrips, whiteflies, root & wireworms.

**DESCRIPTION:** PFR-97 uses an entomopathogenic fungus, *Isaria fumosorosea* Apopka Strain 97, as its active ingredient. This is a naturally occurring, soil-borne fungus that infects and kills many insect pests. Infection, however, is not limited to soil-dwelling pests; it is spread above ground by sick and dying insects. This product has successfully harvested this fungus to control targeted insects. Germination & growth occurs over several days, so application should begin at the first sign of pests, before infestation. Can be mixed with most other products, but the only fungicide it can be mixed with are copper-based ones. 4 hour REI, OMRI listed, NOP approved.

**SUGGESTED USE:** Standard application rate: Apply PFR-97 to moist or pre-irrigated soil at 1-2 lbs. per acre of soil. Spray volume depends on crop size/type: 20-50 GPA on small or young crops; 80-100 GPA or more on full grown crops.

1332870	PFR-97 20% WDG - 5 lbs.	\$225.00
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Cannot be shipped to the following states: AK, AL, AR, IA, UT



### Venerate® CG & Venerate® XC



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

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

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

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

1332957	Venerate CG - 32 oz.	\$56.99
1332958	Venerate CG - 1 Gallon	\$133.99
1332960	Venerate XC - 2.5 Gallons	\$250.00

Venerate XC - 2.5 Gal. (1332960) cannot be shipped to the following states: CA



### The Amazing Doctor Zymes Eliminator



Use This Year Round For Pest & Mildew Free Plants.

**TARGET:** Aphids, thrips, fungus gnats, mites, root aphids and whiteflies. Also eliminates fungus, molds and mildew.

**DESCRIPTION:** This OMRI listed product is made with naturally occurring organic materials and citric acid to produce a multiple action fungicide/miticide. As a miticide, it works by interfering with the pest's ability to breath, fatally breaking down protein and organic materials in eggs and acting as a deterrent. As a fungicide, the citric acid destroys the biomass of the spores and alters the pH to create an environment hostile to growth. Best when used preventatively.

**SUGGESTED USE:** Dilute with warm water. Larger volume applications: 1/2 /gal water. For severe infestations: 1/2 /gal water every 3rd day. Powdery Mildew/weak solution: 1/2 oz/31 1/2 oz water. Soft bodied insects/medium solution: 1-1 1/2 oz/31 oz water. Infestations/strong solution: 2-2 1/2 oz/30 oz water. Preventative: seeds/transplants: 1/2-1 oz/qt water; soil amendment: 1 cup/5 gals water; foliar spray: 1/2 cup/1 gal water.

1459200	The Amazing Dr. Zymes Eliminator - Quart RTU	\$12.95
1459201	The Amazing Dr. Zymes Eliminator - Quart Conc.	\$32.95
1459202	The Amazing Dr. Zymes Eliminator - Gallon Conc.	\$115.95

Larger sizes available.

Cannot be shipped to the following states: AL, CT, DC, ID, IN, KS, LA, ME, MS, NE, NM, ND, SD



## NEEM OIL

### BONIDE® Neem Oil

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

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

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

**SUGGESTED USE: Insecticide:** Mix 2-4 tablespoons (1-2 fl. oz.) per 1 gallon of water thoroughly and spray all plant surfaces, including underside of leaves, until completely wet. **Fungicide:** For present disease, use at 7-14 day intervals, and for prevention and continued control use at 14 day intervals. **Caution:** This product is toxic to bees exposed to direct treatment.

<b>1246602</b>	BONIDE Neem Oil RTU - 1 Quart	<b>\$11.89</b>
<b>1246605</b>	BONIDE Neem Oil RTU - 1 Gallon	<b>\$31.25</b>
<b>1246603</b>	BONIDE Neem Oil Concentrate - 1 Pint	<b>\$17.98</b>

Cannot be shipped to the following states: DC



### Monterey 70% Neem Oil

Effective Against Indoor & Outdoor Insect Pests  
& Fungal Diseases!

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

**DESCRIPTION: Insecticide/Miticide Use:** Controls spider mites, aphids, whiteflies, scale, beetles, leafrollers and other insect pests. **Fungicide Use:** Effective against powdery mildew, black spot, downy mildew, anthracnose, rust, leaf spot, *Botrytis*, needle rust, blights and *Alternaria*.

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

<b>1555615</b>	Monterey 70% Neem Oil - 32 oz. RTU Spray Bottle	<b>\$12.49</b>
<b>1555614</b>	Monterey 70% Neem Oil - 1 Pint Concentrate	<b>\$24.99</b>

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



### ECOWORKS EC®

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

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

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

**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.

<b>1450551</b>	EcoWorks EC - 4 oz.	<b>\$9.79</b>
<b>1450553</b>	EcoWorks EC - 16 oz.	<b>\$25.99</b>
<b>1450554</b>	EcoWorks EC - 32 oz	<b>\$43.99</b>

Cannot be shipped to the following states: AK, AR, CT, DE, ID, IL, IN, IA, KS, KY, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, NH, ND, OH, OK, PA, RI, SD, TN, UT, VT, VA, WV, WI, WY



### Rango™

Three Types Of Control Delivered Through  
Superior Suspension.

**TARGET:** Soft-bodied insects, beetles, borers, caterpillars/moths, leafhoppers, maggots/grubs, leafminers, psyllids, True Plant Bugs, weevils, wireworms & more. Diseases: *Alternaria*, anthracnose, blights, *Botrytis*, mildews, *Fusarium*, molds, *Pythium*, *Rhizoctonia*, rust, scab, sour rot and more. Nematodes: Dagger, Lance, Lesion, Reniform, Root Knot, Soybean Cyst and Sting.

**DESCRIPTION:** OMRI listed Rango is an emulsifiable concentrate made of 70% cold pressed Neem Oil and works as an insecticide, fungicide and miticide. It works as a suffocant on contact, is toxic if ingested, it repels, is an anti-feedant and interferes with the molting process. For disease control, it works by inhibiting mycelial growth. It can be applied in a foliar spray or soil application on a wide range of crops. Do not apply to sensitive plant species like certain ornamentals and flowers.

**SUGGESTED USE:** No additional surfactant is needed. Insecticide/miticide foliar application: Use a concentration of 0.625 - 1.25% v/v for normal pest and crop conditions. Use a concentration 1.8% v/v for heavier infestations. Use no more than 3 qts/acre. Fungicide foliar application: Use a concentration of 1.25 - 1.8% v/v every 10-14 days. Up no more than 6 qts/acre. Soil application: Use a concentration of 1.25 - 2.4% v/v. Use no more than 7.25 qts/acre.

<b>1450570</b>	Rango - Concentrate - 32 oz.	<b>\$34.95</b>
<b>1450572</b>	Rango - Concentrate - 1 Gallon	<b>\$89.95</b>



## AZADIRACHTIN

### AzaSol™



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

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

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

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

<b>1457620</b>	AzaSol - .25 oz.	<b>\$19.99</b>
<b>1457621</b>	AzaSol - .75 oz.	<b>\$46.99</b>
<b>1457622</b>	AzaSol - 6 oz. (8 x 0.75 oz.)	<b>\$329.99</b>



### AzaGuard®



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

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

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

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

<b>1222204</b>	AzaGuard - 32 oz.	<b>\$165.00</b>
<b>1222205</b>	AzaGuard - 32 oz. - Case of 4	<b>\$594.00</b>
<b>1222206</b>	AzaGuard - 1 Gallon	<b>\$555.00</b>



### 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).

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



### Molt-X™



An Excellent Knockdown Spray With Multiple Modes Of Insecticidal Action!

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

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

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

<b>1332770</b>	Molt-X - 1 Pint	<b>\$125.00</b>
<b>1332771</b>	Molt-X - 1 Quart	<b>\$215.00</b>

**Shipping Restrictions:** Cannot ship via US Mail.  
**Cannot be shipped to the following states:** AK, DC





## 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.

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



### 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.

<b>1332820</b>	BotaniGard Maxx - 1 Quart	<b>\$85.00</b>
<b>1332821</b>	BotaniGard Maxx - 1 Gallon	<b>\$280.00</b>
<b>1332822</b>	BotaniGard Maxx - 2.5 Gallons	<b>\$620.00</b>

Case sizes available.

**Shipping Restrictions:** Cannot ship via US Mail.



### Monterey Take Down Garden Spray

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

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

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

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

**SUGGESTED USE:** With concentrate formula, mix in either 1% or 2% solution as follows. **1% Solution:** Mix 2 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.

<b>1257917</b>	Take Down Garden Spray RTU - 1 Quart	<b>\$11.49</b>
<b>1257915</b>	Take Down Garden Spray Concentrate - 1 Pint	<b>\$17.49</b>

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



### PyGanic® Specialty

#### New Label – Same Terrific Product As PyGanic 5.0!

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

**DESCRIPTION:** With this OMRI listed, Pyrethrin-based insecticide you will be able to protect nearly everything you grow or raise from destructive and disease carrying insect pests. This includes the commercial production of livestock, poultry and crops.

These commercial enterprises require more frequent and higher volume application rates than smaller scale producers and this concentrated version is easily adapted to these specific needs. PyGanic Specialty works best if it is applied when pests first appear, before there is a heavy infestation. Thorough coverage is also key; direct contact needs to be made with the pest insects.

**SUGGESTED USE:** For use on production animals in barns, dairies, milking parlors, milking rooms and poultry houses. For use on horse flies, house flies, mosquitoes and gnats, dilute at the rate of 1.5-3 fl. oz. per 1 gallon of water and apply. Please see label for more detailed instructions on other livestock and crop pests.

<b>1288770</b>	PyGanic Specialty - 32 oz.	<b>\$144.00</b>
<b>1288780</b>	PyGanic Specialty - 1 Gallon	<b>\$530.00</b>



## BIOLOGICAL CONTROL

### Mosquito Bits®

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

**TARGET:** Mosquitoes and fungus gnats.

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

For Fungus Gnat control: Spread the granules over the soil until the area is covered. Moisture in the soil will dissolve the Bits. Re-apply every 3 weeks.

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



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

### Mosquito Dunks®

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

**TARGET:** Mosquitoes.

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

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



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

### AQUABAC® 200G Granular Bti Mosquito Control



Use This Bti Larvicide Wherever You Have Mosquitoes Breeding

**TARGET:** Larval stages of mosquitoes and black flies.

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



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

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

### AQUABAC® Xt



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

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

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

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



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

\*Free Shipping in the contiguous 48 states. Ships via Ground ONLY.  
**Cannot be shipped to the following states: NY**

## 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.



<b>1211820</b>	BiteBlocker Family Safe Pen - Single - .5 oz.	<b>\$3.60</b>
<b>1211821</b>	BiteBlocker Family Safe Pen - 2 pack - .5 oz. each	<b>\$6.00</b>
<b>1211815</b>	BiteBlocker Herbal Insect Repellent Spray - 4.7 oz.	<b>\$7.99</b>
<b>1211819</b>	BiteBlocker Xtreme Insect Repellent - 6 oz.	<b>\$8.98</b>

### 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.



<b>1212020</b>	Bug Protector Spray - Mosquitoes - 2 oz.	<b>\$2.99</b>
<b>1212021</b>	Bug Protector Spray - Mosquitoes - 4 oz.	<b>\$4.99</b>
<b>1212022</b>	Bug Protector Spray - Mosquitoes - 8 oz.	<b>\$6.99</b>
<b>1212028</b>	Bug Protector Balm Stick - Mosquitoes - 2 Pack	<b>\$5.99</b>

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

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

**TARGET:** Mosquitoes, fleas and ticks.

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



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

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

### Medella Naturals™ Insect & Mosquito Repellent Spray



**You Will Love The Smell, But Biting Insects Will Not.**

**TARGET:** Mosquitoes and other biting insects.

**DESCRIPTION:** This repellent spray has a lemongrass and vanilla fragrance so remarkable that you'll be tempted to use it as an air freshener. But, don't waste it that way – it's truly a treasure in the way it keeps mosquitoes and other biting insects at bay. This DEET free, essential oil-based spray contains no synthetic or petroleum ingredients and can be used on everyone in the family – including pets. No oily residue. Not tested on animals and made with no animal by-products.

**SUGGESTED USE:** Shake well before using. Spray liberally on dry exposed skin, avoiding eyes. Reapply every 2 hours or as needed.



<b>1212050</b>	Insect & Mosquito Repellent Spray - 2 oz.	<b>\$5.99</b>
<b>1212051</b>	Insect & Mosquito Repellent Spray - 4 oz.	<b>\$7.99</b>
<b>1212052</b>	Insect & Mosquito Repellent Spray - 8 oz.	<b>\$10.99</b>





## WHAT ARE FLY ELIMINATORS?

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

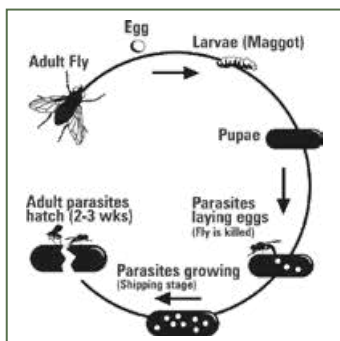


Adult Fly Eliminator emerging from fly pupa.

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

## HOW DO FLY ELIMINATORS WORK?

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



Life cycle of the fly parasite.

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

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

### Philadelphia Park Recommends ARBICO's Fly Eliminators

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



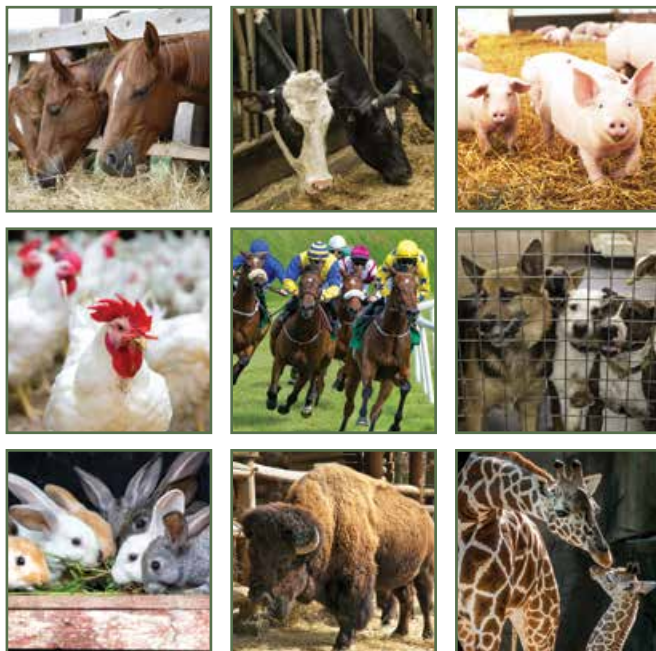
– Roy Smith, Former Track Manager of Philadelphia Park

## WHO USES FLY ELIMINATORS?

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

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

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



## HOW DO I USE FLY ELIMINATORS?

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

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



Fly Eliminators and wood shavings in packaging.



## Use Your Fly Eliminators the RIGHT Way:

### RIGHT Time

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

### RIGHT Place

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

### RIGHT Amount

- ☑ The more Fly Eliminators, the fewer the flies

### RIGHT Schedule

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

## VIP SPECIAL PRICING

**LOCK IN THE LOWEST PRICES FOR 2021 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 <sup>†</sup>	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, 2020.**

### Churchill Downs Chooses ARBICO Organics

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

– Butch Lehr, Former Track Manager of Churchill Downs



### Del Mar Thoroughbred Club Relies On ARBICO Organics

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

– Joe Harper, Chief Executive Officer of Del Mar



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 [www.arbico-organics.com](http://www.arbico-organics.com)**

<sup>†</sup>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. © 2020 Arizona Biological Control, Inc.

## 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 for ultimate fly control!

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

\*See page 19 for free shipping details.

## Ecovet™ Fly Repellent



### A Vet-Created Fly Repellent That Will Improve Insect-Related Skin Sensitivity.

**TARGET:** All manner of flies (including stable and horn flies), ticks and lice.

**DESCRIPTION:** Ecovet uses a proprietary blend of naturally occurring fatty acids that disrupt and confuse the signals that insects are drawn to. The fatty acids in Ecovet are carried in a silicone oil during application. Once applied, the oil will evaporate in about 20-30 minutes, leaving just the fatty acids behind. They will then evaporate at a certain body temperature point, causing a "zone of repellency" around the animal. With regular use, you will even see improvement in Sweet Itch (hypersensitivity reaction to midge bites) problems with horses.



**SUGGESTED USE:** Only need to apply once every 2-3 days, depending on ambient temperature, fly pressure and rain (when treating for Sweet Itch, however, you should initially spray the animal twice a day until it is under control). Will not affect Fly Eliminators®, honeybees and other beneficials. Apply to hair coat using any commercially available small sprayer, suitable oil applicator or a soft cloth.

<b>1107550</b>	Ecovet Fly Repellent - 4 oz. bottle	<b>\$7.95</b>
<b>1107551</b>	Ecovet Fly Repellent - 18 oz. Bottle	<b>\$23.50</b>
<b>1107552</b>	Ecovet Fly Repellent - 1 Gallon Refill	<b>\$125.00</b>

## SCD Probiotics Barn Kleener

### 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.

<b>1202700</b>	SCD Barn Kleener - 1 Liter	<b>\$13.50</b>
<b>1202701</b>	SCD Barn Kleener - 1 Gallon	<b>\$43.00</b>
<b>1202704</b>	SCD Barn Kleener - 5 Gallon	<b>\$170.00</b>

Case sizes available.

## 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.

<b>1107500</b>	Equiderma Horse Spray - 32 oz.	<b>\$23.99</b>
<b>1107501</b>	Equiderma Horse Spray - 1 Gallon	<b>\$84.99</b>



## ADULT FLY TRAPS & REPELLENTS

### Biting Fly Trap

**No Poisons! No Baits! No Electricity!**

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

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



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

<b>1256020</b>	Biting Fly Trap - Pack of 1	<b>\$18.99</b>
<b>1256021</b>	Biting Fly Trap - Pack of 3	<b>\$48.95</b>
<b>1256022</b>	Biting Fly Trap - Pack of 5	<b>\$75.50</b>
<b>1256023</b>	Replacement Sleeves White - Pack of 1	<b>\$3.95</b>
<b>1256024</b>	Replacement Sleeves White - Pack of 3	<b>\$8.25</b>
<b>1256025</b>	Replacement Sleeves White - Pack of 5	<b>\$12.50</b>



### REVENGE® Mini Fly Reel Kit

**Easy to Hang, But Hard on Flies**

**TARGET:** Common houseflies.

**DESCRIPTION:** This handy kit has all you need but a screwdriver to get fly control for months. Containing a full reel (81') of fly tape and an empty take-up reel, you just have mount and run the tape between them (screws and anchors are included). As your fly tape becomes full of flies, simply roll out some fresh tape. Using an environmentally safe, non-drying glue, this long-lasting fly tape is extremely effective at catching and holding those annoying, dirty flies.



**SUGGESTED USE:** Hang the Mini Fly Reel about 5" from the ceiling and away from drafts. Using the enclosed screws (and anchors, if needed), screw through hole in center of spindle to attach to wall or ceiling. Hang the take-up reel 8-12' from the fly reel in a straight and level line. Mount the same as fly wheel. Remove protective paper and pull tape over to take-up reel. Wind onto take-up reel several times to attach securely.

<b>1280611</b>	REVENGE Mini Fly Reel Kit	<b>\$7.85</b>
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### 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.

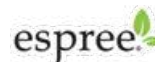
**SUGGESTED USE:** Mix the yeast bait with water and pour into container at the bottom of the trap. Within seconds flies are lured into the trap. They enter into the confinement chamber and dehydrate from exposure to the sun. When it begins to fill up with flies, just empty, hose out and reset with new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

<b>1256001</b>	ARBICO Organics Solar Fly Trap - Includes 1 Bait	<b>\$86.00</b>
<b>1256005</b>	ARBICO Organics Solar Fly Trap - Includes 4 Baits	<b>\$108.00</b>
<b>1256002</b>	ARBICO Organics Fly Bait for Solar Fly Trap	<b>\$9.99</b>
<b>1259990</b>	ARBICO Organics Solar Fly Trap - 2 Pack	<b>\$160.00</b>
<b>1259991</b>	ARBICO Organics Solar Fly Trap - 3 Pack	<b>\$234.00</b>
<b>1259992</b>	ARBICO Organics Solar Fly Trap - 4 Pack	<b>\$300.00</b>

Replacement parts available online.

\*FREE SHIPPING via ground or US Mail ONLY.

### TOP FLY CONTROL BRANDS



## Agribon®

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

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

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

- Prolongs the growing season by protecting from frost, sun, and wind damage.
- Protects from drying conditions and conserves water by reducing evapotranspiration.
- 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
3000006	83" x 500'*	\$85.00
3000004	83" x 2000'	\$290.00
3000041	10' x 50'*	\$29.99
3000042	10' x 250'*	\$78.99
3000043	10' x 500'*	\$149.00
3000045	14' x 1000'	\$288.00
3000046	20' x 1000'	\$435.00
3000048	30' x 1000'	\$592.00
3000049	35' x 1000'	\$693.00
3000050	40' x 1000'	\$900.00
3000051	45' x 1000'	\$945.00
3000052	50' x 300'	\$305.00
3000053	50' x 500'	\$520.00
3000054	50' x 1000'	\$945.00
3000040	61.5" x 3000'	\$360.00

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

AG-50		
Highest level of protection, weighs in at 1.5 oz. sq. yd., protects to 24°F (provides up to 8°F of protection), allows 50% light transmission. Hoops or frames are recommended.		
SKU	Size	Retail
3000020	83" x 50'*	\$29.99
3000026	7' x 7' (5/pack)*	\$29.99
3000090	10' x 500'	\$295.00
3000091	10' x 1500'	\$990.00
3000027	14' x 14' (2/pack)*	\$39.99
3000092	14' x 500'	\$405.00
3000028	26' x 26'*	\$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](http://www.arbico-organics.com) for more information.



## SOIL TESTING

### LaMotte Garden Guide Soil Test Kit

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

**TARGET:** Unbalanced soil with unknown pH and NPK levels.

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

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



<b>1275300</b>	LaMotte Test Kit	<b>\$64.50</b>
<b>1275310</b>	Reagent Refill Kit	<b>\$45.95</b>

### Luster Leaf® Rapitest® Soil Test Kit

**A Quick Way To Test N-P-K!**

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

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

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



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

**Need to Know More About Your Soil? Understand Over a Dozen Factors With a Complete Soil Analysis. Visit [www.arbico-organics.com](http://www.arbico-organics.com)**

### Prococo Coco Coir

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

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

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

Prococo is available in 3 different variations depending on your needs. Prococo Compressed **CocoPeat Block** is finely-ground coir and an excellent moisture-holder. Prococo Compressed **Chips-N-Fiber Block** contains a mixture of rolled and finely chopped husks. Prococo Compressed **CocoChip Block** is made from coarsely chopped husks allowing for excellent drainage.

<b>1305580</b>	Prococo Compressed CocoPeat Block - 10 lbs.	<b>\$12.50</b>
<b>1305582</b>	Prococo Compressed Chips-N-Fiber Block - 10 lbs.	<b>\$12.50</b>
<b>1305581</b>	Prococo Compressed CocoChip Block - 10 lbs.	<b>\$12.50</b>



### iHort Q-Plug Propagation Kit



**All You Need To Get Growing In One Package – Just Add Clones, Seedlings Or Transplants.**

**DESCRIPTION:** This kit provides an easy and convenient start to your growing, no matter what (or how much) you want to grow. These pre-drilled plugs and trays have been developed to give your plants a strong start in life by encourage robust root growth. They offer flexible aeration, optimum lateral root development, excellent water control, maximum cation rates, insulation and natural buffing, and are sturdy but easy to remove. They are made of a fully biodegradable proprietary mix of coco coir, sphagnum peat moss and coconut shell biochar.

**SUGGESTED USE:** This kit contains 50 Q-plugs growing media, size 40/40 (1.25" x 1.25" with a 1/8" hole). A carrier tray and a 50-cell plug tray. A refill pack of 50 plugs is available separately. Simply add the seeds, cuttings, clones or transplants of your choice. Once your plants are too big for the tray, the plugs can be removed and replanted; refill plugs go in easily to replace them.

<b>1430055</b>	iHort 40/40 Q-Plugs, 50 ct. Propagation Kit	<b>\$19.99</b>
<b>1430054</b>	iHort 40/40 Q-Plugs - 50 ct. Refill Bag	<b>\$18.50</b>





## EM•1® Microbial Inoculant



### Faster Breakdown Of Organic Matter.

**TARGET:** Accelerate decomposition & reduce odors.

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

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



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

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 - 1/2 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.



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

## 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.

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

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

## SumaGrow®



### Improve Your Brix Levels And Save Money With This OMRI-Listed Liquid Concentrate

**TARGET:** A broad spectrum of seeds and plants grown in soil.

**DESCRIPTION:** This awarding-winning microbial inoculant is made of liquid humates and a carefully chosen assortment of beneficial microbes. It boosts plant health and increases production, but it can also remediate soil and improve its water retention capability. Healthier, more nutrient-rich plants from vibrant soil require less fertilization – a significant cost saver over time.

**SUGGESTED USE:** For best results, apply 3 times during the first 5-7 weeks of vegetative growth. Smaller areas: Dilute 6 oz./gal. water and distribute evenly over 1,000 sq. ft. Subsequent applications at sowing or planting: 3-4 oz./1 or more gals. water. Larger areas: Dilute 1 gal./acre with adequate water (approx. 8 oz./2500 sq. ft.). Subsequent applications: .5 gals/acre (4 oz./2500 sq. ft.)



<b>1202130</b>	SumaGrow - Quart	<b>\$18.75</b>
<b>1202131</b>	SumaGrow - Gallon	<b>\$45.50</b>

Larger sizes available.

Cannot be shipped to the following states: AR, IL, SD

## 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 10<sup>6</sup> spores/gr.

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

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

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

Cannot be shipped to the following states: HI



## Great White® Premium Mycorrhizae

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

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

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

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

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

<b>2000064</b>	Great White Mycorrhizae - 1 oz.	<b>\$18.49</b>
<b>2000065</b>	Great White Mycorrhizae - 4 oz.	<b>\$34.95</b>
<b>2000066</b>	Great White Mycorrhizae - 8 oz.	<b>\$63.95</b>
<b>2000067</b>	Great White Mycorrhizae - 32 oz.	<b>\$199.99</b>
<b>2000072</b>	Great White Mycorrhizae - 5 lbs.	<b>\$380.70</b>

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



## ROOT™

Stronger, Healthier, Happier Plants Start At The Root!

**TARGET:** Use indoors or outdoors on plants, seedlings and in propagation, to boost root health and aid plant nutrition and soil vitality.

**DESCRIPTION:** With eight different beneficial microbes, fully soluble ROOT is the ideal biological inoculant and soil amendment wherever you are growing. ROOT introduces naturally occurring beneficial microbes that boost bacterial colonization at the roots. With increased microbial activity at the roots, the plant is more efficient at absorbing the nitrogen and breaking it down into ammonia and nitrate. Likewise, normally insoluble phosphorous is made more soluble. The Myconate (Formononetin) in the formulation is a naturally occurring, signaling molecule, that spurs bacterial colonization and the growth of mycorrhizal fungi. This improved mycorrhizal network serves the plant by providing an increased surface area of the root that allows the plant to absorb more nutrients and water.

**SUGGESTED USE:** Not recommended for use in Recirculating or Deep Water Culture Systems. Use ROOT as a separate feeding from regular nutrient feedings. Use within 6 hours of mixing ROOT into water. **Transplanting:** Mix 1 tsp. of ROOT per gallon of water. Transplant and apply ROOT solution as a root drench. **Vegetative and Flowering Plants:** Mix 1 tsp. of ROOT per gallon of water. Apply ROOT solution as a root drench to the growing medium every 2 weeks.

<b>3000508</b>	ROOT - 5 lbs.	<b>\$299.99</b>
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Cannot be shipped to the following states: AL, CA, GA, ID, IN, IA, KS, KY, MS, MO, NE, NC, ND, SC, SD, TN, UT, VA, WV, WI, WY



## Down To Earth™ Bio-Live, 5-4-2



This Product Has It All – Including Mycorrhizal Fungi!

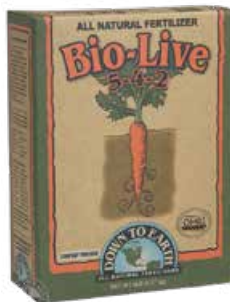
**TARGET:** Soils depleted of both nutrients and beneficial microbial activity.

**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.

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

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



# SOIL AMENDMENTS

## ARBICO Organics® Compost Plus

Revitalizes Soil And Speeds Up Decomposition Of Organic Matter.

**TARGET:** Soils in need of nutrients and beneficial microorganisms.

**DESCRIPTION:** This premium compost is product of our insectary and is a blend of fermented nitrogenous and carbonaceous material along with beneficial bacteria, insect frass and wood shavings. Use compost as a mulch and soil amendment to improve soil structure, texture, aeration, water-holding capacity and to provide additional nutrition for microorganisms.

**SUGGESTED USE:** For potted plants, use 3-10 Tbsp. per pot. Otherwise, mix 1 lb./12 sq. ft. of soil. 2 cu. ft. of compost will treat 50 sq. ft. For farms, 2-4 tons will treat 1 acre.



<b>1305601</b>	Compost Plus - 1 lb. Bag	<b>\$8.90</b>
<b>1305602</b>	Compost Plus - 5 lb. Bag	<b>\$11.50</b>
<b>1305610</b>	Compost Plus - 1 Cubic ft. Bag	<b>\$17.00</b>
<b>1305603</b>	Compost Plus - (2) 1 Cubic ft. Bags	<b>\$28.00</b>
<b>1305607*</b>	Compost Plus - 1/2 Ton Pickup Truck Load	<b>CALL</b>

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

## ARBICO Organics® Earthworms - *Eisenia fetida*

A Natural Way To Aerate Your Soil & 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.

<b>1308003</b>	ARBICO Organics Earthworms (~1,000)	<b>\$34.00</b>
<b>1308020</b>	ARBICO Organics Earthworms (~2,000)	<b>\$49.50</b>
<b>1308050</b>	ARBICO Organics Earthworms (~5,000)	<b>\$99.00</b>

**Subject to seasonal availability.**

## Black Soldier Fly Larvae Frass



Contains Nutrients And Chitin For Stronger, Healthier Plants.

**TARGET:** Soils that need amending.

**DESCRIPTION:** This high quality frass is a byproduct of Black Soldier Fly larvae and contains their waste, exoskeletons and leftover food. BSF larvae are voracious eaters and will thoroughly and efficiently break down decaying plant and other materials as they feed. In this process, they release nitrogen, phosphorus and other nutrients. As the larvae eat and mature, they grow and molt. This molting process leaves bits of exoskeleton, called chitin, in their frass. Plants react to chitin in the soil as if there are insects present. In response, they make themselves stronger by producing bigger and healthier parts and fortifying their overall cell structure. Their insect defense translates into more bountiful plants for you



**SUGGESTED USE:** Can be used on anything grown indoors or outdoors. Mix into soil or growing medium or add as a top dress to plantings. Apply at a rate of one cup frass to one cubic foot of soil mix.

<b>1300420</b>	Black Soldier Fly Larvae Frass - 1 lb.	<b>\$9.85</b>
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## 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 a slow release of micronutrients and trace minerals, add microbial life, reduce transplant shock, aerate and condition the soil and add 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:** Mix into potting soil at the rate of 3%-5% by volume. Top-dress around pots, beds, shrubs, trees or rows at a rate of 1/4" - 1/2" every 2-4 mos. Incorporate into the top several inches of pots or beds prior to planting or mulching. Repeat when transplanting to reduce shock. Apply onto turf and rake in for lush, green grass.

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



## Down To Earth™

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



## Neptune's Harvest

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



## JH Biotech, Inc.

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



## 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.



## John & Bob's Smart Soil Solutions

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



## 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.



## 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.



## Sustâne

One of the world's leading manufacturer-exporters of organic fertilizers, Sustâne 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.



# FERTILIZERS



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

## DTE Alfalfa Meal, 2.5-0.5-2.5



CFDA Registered Organic Input Material. Plant Nutrition That Is Fresh From The Field.

1300275	Down To Earth Alfalfa Meal - .5 lb.	\$3.59
1300276	Down To Earth Alfalfa Meal - 5 lbs.	\$10.39

## DTE All Purpose Mix, 4-6-2



Fertilizer For All Of Your Growing Needs!

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

Larger sizes available - please go online or call.

## DTE Bio-Live, 5-4-2



A Nutrient And Microbe-Rich Fertilizer!

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

## DTE Citrus Mix, 6-3-3



The nutrients you need for vibrant and delectable citrus!

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

Larger sizes available - please go online or call.

## DTE Neem Seed Meal, 6-1-2



Another Outstanding Product From The Well-Loved Neem Tree.

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

## DTE Fish Bone Meal, 3-16-0



Marine Based Bone Meal For All Of Your Growing Needs.

1300270	Down To Earth Fish Bone Meal Mini - 1 lb.	\$4.49
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## DTE Rose & Flower Mix, 4-8-4



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

1300233	Down To Earth Rose & Flower Mini - 1 lb.	\$4.49
1300231	Down To Earth Rose & Flower Mix - 6 lbs.	\$11.79

Larger sizes available - please go online or call.

## DTE Starter Mix, 3-3-3



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

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

## DTE Vegan Mix, 3-2-2



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

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

See online for shipping restrictions.



See full line of Down to Earth Fertilizers online.

## Maxicrop Soluble Seaweed Powder, 0-0-17



**Improves Germination & Helps Prevent Diseases.**

**TARGET:** Soils that need additional minerals.

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

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



<b>1313001</b>	MaxiCrop Seaweed Powder - 10.7 oz.	<b>\$19.99</b>
<b>1313002</b>	MaxiCrop Seaweed Powder - 27 oz.	<b>\$35.00</b>
<b>1317202</b>	MaxiCrop seaweed Powder - 44 lbs.	<b>\$399.00</b>

## Maxicrop Kelp Meal, 1-0-2



**Successful Growers Choice To Correct Deficiencies & Improve Plant Nutrition!**

**TARGET:** Deficient soils that need macro nutrients.

**DESCRIPTION:** Maxicrop Kelp Meal Fertilizer (1-0-2) is composed of slow-dried, ground seaweed - cleaned, desalted and dust free. This is a rich organic source of over 70 trace minerals (including calcium, magnesium, sulfur, and chlorine) as well as vitamins, amino acids and plant hormones.

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



<b>1314801</b>	Maxicrop Kelp Meal Fertilizer - 5 lbs.	<b>\$16.75</b>
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## Maxicrop Liquid Seaweed, 0-0-1

**Boost Plant And Lawn Growth With This Concentrated & Nutrient Rich Fertilizer!**

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

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

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



<b>1313005</b>	MaxiCrop Liquid Seaweed - 32 oz.	<b>\$12.95</b>
<b>1313006</b>	MaxiCrop Liquid Seaweed - 1 Gallon	<b>\$29.95</b>
<b>1313007</b>	MaxiCrop Liquid Seaweed - 2.5 Gallons	<b>\$58.00</b>

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



**The Best Of Both Products For A Complete Fertilization Program.**

**TARGET:** All types of plants and crops.

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

<b>1315012</b>	1 Pint	<b>\$12.99</b>
<b>1315011</b>	1 Quart	<b>\$18.99</b>
<b>1315013</b>	1 Gallon	<b>\$45.99</b>
<b>1315014</b>	5 Gallons	<b>\$169.99</b>

Larger sizes available.

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



## Neptune's Harvest Fish Fertilizer, 2-4-1



**Versatile Without Unpleasant Odors!**

**TARGET:** Soils requiring rapid nourishment.

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

<b>1315001</b>	1 Pint	<b>\$11.99</b>
<b>1315000</b>	1 Quart	<b>\$16.49</b>
<b>1315002</b>	1 Gallon	<b>\$38.19</b>
<b>1315003</b>	5 Gallons	<b>\$149.99</b>

Larger sizes available.

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



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



**Contains Over 60 Naturally Occurring Nutrients & Amino Acids!**

**TARGET:** Plants and crops exposed to stress.

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

<b>1315008</b>	1 Pint	<b>\$11.99</b>
<b>1315007</b>	1 Quart	<b>\$16.99</b>
<b>1315009</b>	1 Gallon	<b>\$38.99</b>
<b>1315010</b>	5 Gallons	<b>\$149.99</b>

Larger sizes available.

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





## 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.

<b>1308320</b>	Andesite Mineral Complex - 3 lbs.	<b>\$15.49</b>
<b>1308321</b>	Andesite Mineral Complex - 25 lbs.	<b>\$37.50</b>
<b>1308322</b>	Andesite Mineral Complex - 40 lbs.	<b>\$54.99</b>

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

## AZOMITE®



A To Z Of Minerals Including Trace Elements.

**TARGET:** Depleted soils in need of remineralization.

**DESCRIPTION:** This highly mineralized complex silica ore is mined from ancient marine volcanic deposits in Utah. Azomite contains over 70 metabolically active minerals and trace elements and has been used by gardeners and farmers as a micronutrient supplement for more than 60 years. Known to improve plant growth and yields, this fine powder is micronized to easily dissolve in water for application. It can also be added dry when planting or transplanting. OMRI listed.



**SUGGESTED USE:** Field crops: 50-200 lbs/acre. Citrus/Fruit/Vines: 1/2-5 lbs to the soil around each plant. Apply annually. Flowers/Plants/Vegetables: 1 lb/10-15 ft. Lawn/Turf: 44 lbs/12,000-15,000 sq ft. Ornamentals/Shrubs & Trees: 1/2-1 lbs to the soil around each plant. Apply annually.

<b>1309210</b>	AZOMITE - 5 lbs.	<b>\$11.50</b>
<b>1309211</b>	AZOMITE - 25 lbs	<b>\$23.85</b>
<b>1309212</b>	AZOMITE - 44 lbs.	<b>\$37.80</b>

## Glacial Rock Dust



CDFA Registered, Deep-Down Goodness For Your Plants

**TARGET:** Soils that need a boost of trace and essential minerals.

**DESCRIPTION:** This natural mineral product can provide soil with essential and trace minerals that have been lost due to farming, erosion, leaching, weather and time. Sourced from rocks deep under glacial ice that have been able to keep their minerals intact, this goodness is ready to go right into your soil. After application, the minerals will slowly release into the soil for long-term benefits. GRD can also improve the overall structure of soil, which heightens drought resistance and improves microbial life. Responsibly harvested without chemical extraction.

**SUGGESTED USE:** Gently dig into soil surface once a month or as desired. In gardens and landscapes: use up to 5 lbs. per 200 sq. ft. or 25 lbs. per 1,000 sq. ft. For transplanting, premixing soil or top dressing: Mix 1 tbsp. per gallon of soil or growing medium.



<b>1308090</b>	Glacial Rock Dust - 5 lbs.	<b>\$16.95</b>
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## MontanaGrow™ Soil Amendments



These Organic Soil Amendments Can Do Wondrous Things For Your Soil & Your Plants.

**TARGET:** Soils in need of remineralization and improved texture.

**DESCRIPTION:** These soil amendments began as amorphous volcanic tuff from ancient volcanoes. This tuff contains silicon that becomes available to plants once it is added to soil. This organic powder provides soil with macro and micro nutrients and improves its texture and water retention capabilities. Plant benefits include improved cell wall strength and photosynthesis, a high cation exchange capacity, improved carbon sequestration, greater tolerance to temperature extremes, stronger disease resistance and more. Available as a smooth soil amendment or in a chunkier granular form.



**SUGGESTED USE:** Mix 1/2 - 1 cup/7.5 gals of growing medium or 4 - 8 oz./cu. ft. of growing medium. Use 100-200 lbs. per acre. Top dress plants with 2 tbsp. every 7-14 days as needed. Can be used with most insecticides, herbicides and fungicides. Works well with fertilizers.

<b>1308370</b>	Silicon Soil Amendment - 5 lb. Jug	<b>\$24.99</b>
<b>1308371</b>	Silicon Soil Amendment - 25 lb. Poly Bag	<b>\$64.99</b>
<b>1308372</b>	Silicon Soil Amendment - 50 lb. Poly Bag	<b>\$79.99</b>
<b>1308360</b>	Silicon Granules - 4.3 lb. Jug	<b>\$29.99</b>
<b>1308361</b>	Silicon Granules - 25 lb. Poly Bag	<b>\$79.99</b>
<b>1308362</b>	Silicon Granules - 50 lb. Poly Bag	<b>\$99.99</b>

## PRE-EMERGENT

### Sustâne® 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** Sustâne Spring Weed & Feed - 30 lb. Bag **\$35.00**



### Gluten-8 OLP™ Liquid Corn Gluten, 1.5-0-0

This Easy-to-Use Liquid Weed Control Plus Nitrogen Works Wonders!

**TARGET:** Knockdown control for annual grasses and broadleaf weeds.

**DESCRIPTION:** Gluten-8 OLP Liquid Corn Meal offers pre-emergent weed control with 1.5% nitrogen to feed your soil. This product is derived from water soluble corn gluten meal, which provides effective and economical pre-emergent control of annual grasses and broad leaf weeds with much less effort than the granular corn gluten. Gluten-8 also contains 1.5% nitrogen (lower than granular corn gluten), which can help you manage nitrogen loads. All ingredients are EPA Section 25-B exempt. DO NOT use on grass that's been recently seeded; after the first mowing, apply at will. This 1 gallon bottle covers up to 4,000 sq. ft.

**SUGGESTED USE:** Greenhouses, agricultural crops, lawns, nursery stock, ornamentals, orchards, home gardens and more.

**1273010** Gluten-8 OLP Liquid Corn Gluten, 1.5-0-0 - 1 Gallon **\$61.00**



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

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

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

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

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

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



### BONIDE® Maize® Weed Preventer RTS

This Liquid Corn Gluten Stops Weeds Before They Can Germinate!

**TARGET:** Both perennial and annual grassy and broadleaf weeds.

**DESCRIPTION:** Use this NOP-compliant pre-emergent to keep lawns and gardens free of weeds. It will not harm your desirable plants; wait until they have an established root system and/or are 2-3 inches tall, then spray over and around them. This product prevents weed seeds from germinating and growing, but will not kill existing weeds. Those should be removed before spraying.

**SUGGESTED USE:** Apply product using hose-end applicator provided. It will accurately dilute the concentrate as it sprays. Apply in early spring to established turf or plants before weed germination. Apply in fall after summer heat stress has passed. Can be re-applied up to four times per growing season, or every 4-6 weeks. 32 oz. bottle covers 1,000 sq. ft.

**1273018** BONIDE Maize Weed Preventer RTS - 32 oz. **\$14.99**

Cannot be shipped to the following states: DC



For More Weed Control Solutions  
Visit [www.arbico-organics.com](http://www.arbico-organics.com)

## 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).

<b>1453792</b>	BONIDE Weed Beater Fe Conc. - 1 Pint	<b>\$14.99</b>
<b>1453790</b>	BONIDE Weed Beater Fe RTU - 1 Quart	<b>\$9.99</b>
<b>1453791</b>	BONIDE Weed Beater Fe RTU - 1 Gallon	<b>\$28.99</b>

Cannot be shipped to the following states: CA



### BioSafe Weed & Grass Killer



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

**SUGGESTED USE:** Do not apply this product through any type of irrigation system. Use a hand-held or hose-end sprayer that produces a uniform spray; this will cover the most leaf area for optimal weed control. A 10-13% volume to volume (V/V) dilution (13-16 fl. oz. per gal. 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.

<b>1453820</b>	BioSafe Weed & Grass Killer - 32 oz. RTU	<b>\$7.99</b>
<b>1453821</b>	BioSafe Weed & Grass Killer - 32 oz. Concentrate	<b>\$21.99</b>
<b>1453822</b>	Biosafe Weed & Grass Killer - 1 Gallon Concentrate	<b>\$69.99</b>



## BROAD SPECTRUM

### BONIDE® Burnout

**Fast Acting Weed & Grass Killer!**

**TARGET:** Unwanted grass and weeds.

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

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

<b>1453778</b>	BONIDE Burnout - 1 Quart RTU	<b>\$11.50</b>
<b>1453775</b>	BONIDE Burnout - 1 Quart Concentrate	<b>\$21.00</b>
<b>1453776</b>	BONIDE Burnout - 1 Gallon Concentrate	<b>\$48.00</b>
<b>1453777</b>	BONIDE Burnout - 2.5 Gallons Concentrate	<b>\$99.00</b>



### Weed Slayer

**Give Those Annoying Weeds A Powerful One-Two Punch!**

**TARGET:** Most common weeds like Nutsedge, Purslane and Crabgrass.

**DESCRIPTION:** Weed Slayer consists of two separate products (Parts A & B) that you mix together to make one exceedingly effective weed killer. Part A is the Weed Slayer, a broad spectrum herbicide crafted from Eugenol (an essential oil from cloves) and molasses. Part B is Agro Gold, a biological adjuvant containing *Streptomyces* and *Bacillus* microbes. The Eugenol in Part A will make its way down and kill the roots and/or root ball of the undesired plant. The soil enhancing bacteria in Part B clears the way for and drives the Eugenol down into the roots. Results will be seen in 7-12 days and control will last up to 6 weeks. Leaves no toxicity in the soil. WSDA registered.

**SUGGESTED USE:** After mixing together equal amounts of Part A & Part B and assuring the pH level is below 4: apply 1-3 quarts into 20 and up to 25 gallons of water total. The mixture should be a 1-3% dilution, with 2% being the optimal number. Do not apply to young trees or shrubs with green bark.

<b>1458320</b>	Weed Slayer - Part A & B - 32 oz. each - Conc.	<b>\$73.85</b>
<b>1458322</b>	Weed Slayer - Part A & B - 1 gal. each - Conc.	<b>\$226.67</b>





## BONIDE® Botanical KleenUp®



This NOP-Compliant Herbicide Provides Rapid Knockdown & Long-Lasting Weed Control.

**TARGET:** Broadleaf weeds, grasses, algae and moss.

**DESCRIPTION:** This non-selective herbicide is a fast-acting dessicant that uses Caprylic acid to kill most common weeds within hours. It will not translocate; it will burndown and kill only those plants that are directly sprayed. When used regularly it can suppress the growth of some biennial and perennial species. Works best in warm, dry conditions. Can be used in previously cultivated or new areas prior to planting. May need to be reapplied if it rains within 3 hours of initial treatment.

**SUGGESTED USE:** Use a 3% solution for small, easy-to-kill weeds, less than 5" tall, and for moss and algae. Use a 6% solution for larger perennial weeds and grasses. Use a 9% solution for tough to kill weeds, vines, brush and sucker control. Dilute with water as follows: Pint – 3% solution: ½ fl. oz. 6% solution: 1 fl. oz. 9% solution: 1½ fl. oz. Quart - 3%: 1 fl. oz. 6%: 2 fl. oz. 9%: 4 fl. oz. Gallon - 3%: 4 fl. oz. 6%: 8 fl. oz. 9%: 12 fl. oz. Repeat every 2-3 weeks.

<b>1453825</b>	BONIDE Botanical KleenUp - Pint Conc.	<b>\$18.30</b>
<b>1453826</b>	BONIDE Botanical KleenUp - Quart Conc.	<b>\$31.15</b>
<b>1453827</b>	BONIDE Botanical KleenUp - Gallon Conc.	<b>\$101.25</b>

Cannot be shipped to the following states: CA, MA, MS, PR, SD



## 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, non-selective 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.

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



## Torched Weed Killer



This Non-Selective Oil-Based Herbicide Digs Deep To Kill The Root.

**TARGET:** Unwanted grasses and weeds.

**DESCRIPTION:** This ingenious combination of Mint Oil and soaps offers the fast-acting power of toxic weed killers without the risk to health and the environment. This non-selective, post emergent herbicide works best at temperatures over 60°F and generally only takes one application (except for those especially tough weeds). It begins working on contact and does not stop until it has killed down to, and including, the root.

**SUGGESTED USE:** Mix 8-10 oz per gal/water. Apply when weeds are actively growing. Re-treat if it rains within 25 hours of spraying. If needed, reapply to hard-to-kill weeds after 5 days. Protect desirable plants during application by shielding them with cardboard or plastic. If accidentally sprayed, immediately rinse the plants and surrounding area with large amounts of water.

<b>1453890</b>	Torched Weed Killer - 1 Gallon	<b>\$50.00</b>
<b>1453891</b>	Torched Weed Killer - 2.5 Gallons	<b>\$105.00</b>



## WEED BARRIERS

### 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.

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



## ADJUVANTS/SPREADERS/STICKERS

### 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

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

\*Call for freight quote.

Call for larger sizes.

### 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.

<b>1440100</b>	Brandt Organics SKH Sticker - 5 lbs.	<b>\$15.50</b>
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**Cannot be shipped to the following states:** AR, HI, ID, KY, MS, TN, UT, WA, WV, WY

### RAW Yucca Flow

Add Just A Pinch Of This And Watch Your Plants Take Off.



**TARGET:** Improves nutrient delivery and water retention, prevents nutrient lock-up and removes excess salts.

**DESCRIPTION:** Made from 100% natural yucca extract, this is the perfect addition to any nutrient or foliar spray program. It will keep minerals and nutrients in suspension during delivery and prevent nutrient lock-up. When used in a soil drench or flush, it helps distribute water and nutrients deeper and more thoroughly while pushing out excess salts from the root zone. Fully water soluble and very concentrated. Can be used in all stages of growth and flower. Increases water retention and helps plants recover from drought stress.

**SUGGESTED USE:** Works in conjunction with all nutrient and feeding programs. Add 1/16 to 1/8 tsp./5 gal. water in reservoir for irrigation or final spray solution. Apply directly to soil or foliage as needed. Do not exceed recommended dilution amounts.

<b>1308420</b>	RAW Yucca Flow - 2 oz.	<b>\$11.46</b>
<b>1308421</b>	Raw Yucca Flow - 8 oz.	<b>\$30.78</b>

### Natural Wet®



#### You'll See Fast Results With This Organic Yucca Product.

**DESCRIPTION:** The Yucca plant has adapted to thrive in harsh environments and it does so by producing saponins that alleviate the stressors of heat, drought and inhospitable soil. OMRI listed Natural Wet employs these saponins as its active ingredient, providing you with a liquid product that aids in nutrient uptake, improves and regulates water use, creates uniform water absorption, reduces surface tension of liquids, allows foliar sprays to spread and stick better, loosens compacted soil, reduces salinity of soil and allows for better drainage. All of which means less stressed plants and higher yields. 100% biodegradable and can be used in conventional, organic and hydroponic growing.



**SUGGESTED USE:** Soil application - 16 oz./acre in enough water to cover the area. Bulk: 16 oz./cu. yard. Row crops: mix with fertilizer solution. Transplants: mix with transplant water. Foliar application-Dilute sprays: 16 oz./100 gals. spray solution. Concentrate sprays; 8 fl oz./acre.

<b>1810940</b>	SaferGro Natural Wet - 1 Pint Concentrate	<b>\$9.99</b>
<b>1810941</b>	SaferGro Natural Wet - 1 Quart Concentrate	<b>\$14.99</b>
<b>1810640</b>	JH Biotech Natural Wet - 2.5 Gallons/case of 2	<b>\$112.99</b>

**Cannot be shipped to the following states:** AK, AR, DE, DC, IL, KS, ME, MD, MN, MS, MT, ND, OH, OK, PA, RI, SC, SD, UT, WV, WI, WY

## 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 of spray volume and Boogie Blue Plus, which will last for 40,000-50,000 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.

<b>2000600</b>	Boogie Blue Basic	<b>\$29.90</b>
<b>2000605</b>	Boogie Blue Plus	<b>\$59.00</b>

## Bug Blaster™

This Magic Wand Will Blast Away Destructive Bugs.

**TARGET:** Aphids, whiteflies, mealybugs, spider mites and other soft bodied insects.

**DESCRIPTION:** With this sprayer, you can quickly and effectively wipe out soft bodied insects and/or rid your plants of detritus. It can also impede mildew growth by keeping plant and other surfaces clean. All without using anything but water. The Bug Blaster nozzle creates a forceful 360° flat spray of water while the slender wand lets you insert it into, under and around the center of the plants to hit every plant surface. The spray will be strong enough to fatally traumatize soft bodied insects from eggs to adults, but will not harm the plants. Uses 60% less water than a standard spray gun.



**SUGGESTED USE:** Absolutely **DO NOT** use with any type of pesticide or fertilizer. Simply screw the Bug Blaster nozzle onto watering wand and connect to your garden hose and you are ready to go. Spray infested plants every 3-5 days for 2-3 weeks. Spray plants that are susceptible to powdery mildew, black spot or rust in the morning to give plants a chance to dry out during the day.

<b>1452530</b>	30" Anodized Blaster	<b>\$24.95</b>
<b>1452535</b>	Bug Blaster Nozzle	<b>\$12.99</b>

## All Purpose Dispenser Tube

Dispense Milky Spore & Other Powdered Material Easily!

**DESCRIPTION:** Use with Milky Spore and other powdered products and fertilizers for quick and effective application



in lawns and gardens! This all-purpose dispenser holds up to 40 oz. of Milky Spore powder. Dispensers are sold empty. Milky Spore powder sold separately (see page 23).

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

<b>1216052</b>	All-Purpose Dispenser Tube	<b>\$14.50</b>
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## HOSE END SPRAYERS



### BONIDE® Auto Mix Hose End Sprayer

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

<b>1800010</b>	BONIDE Auto Mix Hose End Sprayer	<b>\$17.99</b>
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### Chameleon Adaptable Hose End Sprayer

Get Perfect Application With This Highly Adjustable Sprayer.

<b>1800006</b>	Chameleon Adaptable Hose End Sprayer - 1 Sprayer	<b>\$14.75</b>
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### Self-Mixing Hose End Sprayer

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

<b>1800107</b>	Self-Mixing Hose End Sprayer	<b>\$23.99</b>
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## MULTI-PURPOSE

### 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**

\*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 pre-emulsified creates a lighter oil that dries faster, will not cause phytotoxicity, burn or undue stress, leaves no toxic residue on plants and dilutes easily with water.

**SUGGESTED USE:** Can be used with a wide variety of crops indoors or outdoors. 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 **\$65.00**  
**1332806** SuffOil-X - Case of 2 ct./2.5 Gals. **\$117.00**

Larger sizes available.

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

**Cannot be shipped to the following states:** AK, DC



### 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**

Larger sizes available.



### Eco-1® 40

**Strong Control That's Gentle Enough To Use On Edible And Medicinal Plants.**

**TARGET:** Aphids, whiteflies, two-spotted spider mites and fungal diseases like Powdery Mildew.

**DESCRIPTION:** Eco-1 40 contains food-grade 31% Linseed Oil with 8% Rosemary and 1% Thyme Oils. This potent OMRI listed mixture will control, via suffocation, a wide range soft-bodied insects and mites in all their life stages. Also a powerful tool against fungal diseases. Can be used on plants grown for feed, fuels, fiber or medicinal purposes. No REI or PHI. No adjuvants, surfactants or penetrants needed. FIFRA 25(b) exempt from EPA registration.

**SUGGESTED USE:** For best results, do not mix with cold water (less than 45°F). Aphids: Apply every 7-12 days. 1 1/2-3 fl oz/gal water (1-2 gals/100 gals water) for dormant applications. 3-6 fl oz/gal water (2 1/2-5 gals/100 gals water) for active. Whiteflies: 3-6 fl oz/gal water every 7-12. 2 1/2-5 gals/100 gals water every 7-14 days. Mites: 1-1 1/2 fl oz/gal water every 5-7 days. 3/4-1 gal/100 gals water every 7-14 days. Powdery Mildew: 3-6 fl oz/gal water every 3-14 days. 2 1/2-5 gals/100 gals water every 7-14 days.

**1458140** Eco-1 40 - Concentrate - 1 Gallon **\$269.99**

**Cannot be shipped to the following states:** AR, CT, DC, ID, IA, KS, KY, LA, ME, MI, MS, NE, NV, NH, ND, OR, RI, UT, VT, VA, WI





## Disease Control

Healthy plants start at the roots. Just as we strive to give our children the best start in order to become strong adults, plants need support right from the start. Creating a hardy root zone is the first step in keeping diseases at bay. The introduction of beneficial microorganisms to the soil leads to increased colonization of the root zone. This creates an environment that enhances rooting and keeps pathogens at bay, with a symbiotic network of roots and microbes filling the void where pathogens often enter. In doing so, disease incidence is reduced, plant health is boosted and harvest yields are increased.

## RootShield® Plus Granules & RootShield® Plus WP



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

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

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



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

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

<b>1332754</b>	RootShield Plus Granules - 10 lb. Box	<b>\$188.00</b>
<b>1332755</b>	RootShield Plus Granules - 40 lb. Bag	<b>\$428.00</b>
<b>1332756</b>	RootShield Plus WP - 1 lb. Bag	<b>\$120.00</b>
<b>1332757</b>	RootShield Plus WP - 3 lb. Box	<b>\$264.00</b>

Large sizes available.

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

## 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.

<b>1332981</b>	Mycostop - 5 grams	<b>\$31.00</b>
<b>1332982</b>	Mycostop - 25 grams	<b>\$133.99</b>

**Cannot be shipped to the following states:** AL, AK, DC, HI, ID, IA, LA, NE, ND, SC, SD, TN, WV, WI, WY



## Regalia® CG & 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 P<sub>5</sub> classification. 4-hour REI.

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

<b>1332968</b>	Regalia CG - 1 Quart	<b>\$49.99</b>
<b>1332969</b>	Regalia CG - 1 Gallon	<b>\$115.00</b>
<b>1332970</b>	Regalia - 2.5 Gallons	<b>\$220.00</b>

**Regalia - 2.5 Gal. (1332970) cannot be shipped to the following states:** CA



## CEASE® Biological Fungicide



For Control Of Soil Pathogens That Cause Fungal & Bacterial Plant Diseases.

**TARGET:** *Alternaria*, anthracnose, *Botrytis*, *Didymella bryoniae* (gummy stem blight), *Entomosporium*, *Erwinia*, *Fusarium*, powdery mildew, *Pseudomonas*, *Xanthomonas*, *Rhizoctonia*, *Pythium*, *Phytophthora* and more.

**DESCRIPTION:** Cease is an organic contact fungicide/bactericide containing a patented strain of *Bacillus subtilis*. It works by occupying space that the invading pathogens would use and then it disrupts the germination and growth of those pathogens. OMRI listed and NOP compliant. Can be used in combination and/or rotation with other products. 0-day PHI interval and 0-hours REI. No phytotoxicity or residues on flowers or foliage.

**SUGGESTED USE:** Use 2-8 qts/100 gals water about once a week. See label for crop and disease-specific directions. Suitable for wet applications, but use of a spreader/sticker is recommended under those conditions.

<b>1332724</b>	Cease - 1 Gallon	<b>\$75.50</b>
<b>1332727</b>	Cease - 2.5 Gallons	<b>\$170.00</b>
<b>1332725</b>	Cease - 1 Gallon, Case of 4	<b>\$271.80</b>
<b>1332728</b>	Cease - 2.5 Gallons, Case of 2	<b>\$306.00</b>



## Cueva® Fungicide Concentrate



Kills Fungal & Bacterial Plant Diseases With Good Ole' Copper Soap.

**TARGET:** *Alternaria*, anthracnose, spots, bacterial blast, bacterial cankers, specks, rots, black pod, blotch, molds, *Botrytis*, downy mildew, fireblight, fly speck, leaf smut, knots, powdery mildew, *Rhizoctonia*, rusts, scab & more.

**DESCRIPTION:** Organic Cueva combines a soluble copper fertilizer with a fatty acid to create a true soap in a patented flowable liquid formulation. This formula lets the product spread easily across plant surfaces and helps the copper get into fungal or bacterial cells and destroy them. As it moves across the plants and into the cells, it forms a protective layer that creates a hostile environment for pathogens.

**SUGGESTED USE:** On vegetables, field-grown herbs and crops, nuts, fruits, citrus and berries: Mix 0.5-2.0 gals/30-100 gals of water and apply to one acre. Begin treatment when disease first appears and reapply at 7-10 day intervals. This schedule may vary somewhat according to crop specific application needs. Use the higher rate following heavy rain or when the amount of disease is increasing rapidly. If possible, time applications so that 12 hours of dry weather follow application. Use the higher rate to control diseases that may go dormant and overwinter.

<b>1332920</b>	Cueva Fungicide Concentrate - 2.5 Gallons	<b>\$143.50</b>
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## MilStop SP 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 SP 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.)

<b>1332766</b>	MilStop SP Foliar Fungicide - 5 lbs.	<b>\$63.00</b>
<b>1332767</b>	MilStop SP Foliar Fungicide - 25 lbs.	<b>\$275.99</b>



## Procidic®



This Organic Fungicide/Bactericide Works Two Ways: On Contact & Systemically.

**TARGET:** Agrobacterium, *Alternaria*, anthracnose, bacterial complex, black chaff, black sigatoka, *Botrytis*, cankers, citrus greening, damping off, dirty grain, downy mildew, *Fusarium*, gummosis, leaf streak, leaf stripe, lettuce drop, mummy berry, root tumor, rust, spots, specks, wilts and more.

**DESCRIPTION:** This WSDA certified foliar spray uses citric acid to eliminate pathogenic fungi and bacteria. This exceptional product will work on contact, but is also absorbed rapidly into the plant. Once inside, it will work its way towards the apex of plant. This action allows new tissue to grow infection-free. Additionally, as it moves through the plant, it stimulates the production of phytoalexins (a plant's natural defense against microbial attacks), which inhibits the future growth of fungi and bacteria. May be applied in regular foliar spray applications or in tank mixes and there is no maximum number of applications per season. 0-hour REI and 0-day PHI. Can be used on a wide range of plants and crops.

**SUGGESTED USE:** Best when applied preventatively. Procidic has crop-specific application rates that can be found on the manufacturer's label. A general application is to apply in a minimum of 10 gals of water per acre.

<b>1458220</b>	Procidic RTU - 32 oz.	<b>\$15.99</b>
<b>1458221</b>	Procidic Concentrate - 16 oz.	<b>\$37.99</b>
<b>1458222</b>	Procidic Concentrate - 1 Gallon	<b>\$234.99</b>

**Cannot be shipped to the following states:** AL, AK, AR, DC, GA, ID, KS, LA, MD, MN, MS, NE, NM, ND, OH, RI, SD, UT, VA, WV, WI, WY





## OxiPhos® 5.0

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 mechanisms. 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 gallons 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 Concentrate **\$215.00**  
**1222571** OxiPhos - 5 Gallons Concentrate **\$308.00**

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



## Monterey Complete Disease Control



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

**TARGET:** Blights, molds, spots, rots and mildews.

**DESCRIPTION:** This broad spectrum preventative biofungicide/bactericide contains *Bacillus amyloliquefaciens* strain D747. When used as a soil drench, this naturally occurring bacterium goes straight to the plant's roots, where it will establish itself and grow. This colonization prevents the establishment of disease-carrying bacteria and fungi in the soil. When used as a foliar spray, this bacterium will overcome any pathogenic spores present on foliage.

**SUGGESTED USE:** Standard mix rate: 1 tsp. /gal. of water. Foliar spray: Repeat every 7-10 days or as needed. As a soil drench: Drench the roots of transplants with approximately 4 fl. oz. immediately before transplanting. Lawns/Grassy Areas: Apply as a fine spray to the surface area. 2-5 gals/1,000 sq. ft. of lawn.

**1458203** Monterey Complete Disease Control - 32 oz. RTU **\$14.99**  
**1458200** Monterey Complete Disease Control - 8 oz. Conc. **\$12.99**  
**1458201** Monterey Complete Disease Control - 1 Pint Conc. **\$16.99**  
**1458202** Monterey Complete Disease Control - 1 Gallon Conc. **\$96.99**

Cannot be shipped to the following states: RTU (1458203): MO

8 oz. concentrate (1458200) and 1 pt. concentrate (1458201): MO, ND

1 gal. concentrate (1458202): NY



## The Amazing Doctor Zymes Eliminator



Use This Year Round For Pest & Mildew Free Plants.

**TARGET:** Aphids, thrips, fungus gnats, mites, root aphids and whiteflies. Also eliminates fungus, molds and mildew.

**DESCRIPTION:** This OMRI listed product is made with naturally occurring organic materials and citric acid to produce a multiple action fungicide/miticide. As a miticide, it works by interfering with the pest's ability to breath, fatally breaking down protein and organic materials in eggs and acting as a deterrent. As a fungicide, the citric acid destroys the biomass of the spores and alters the pH to create an environment hostile to growth. Best when used preventatively.

**SUGGESTED USE:** Dilute with warm water. Larger volume applications: 1/2 /gal water. For severe infestations: 1/2 /gal water every 3rd day. Powdery Mildew/weak solution: 1/2 oz/31 1/2 oz water. Soft bodied insects/medium solution: 1-1 1/2 oz/31 oz water. Infestations/strong solution: 2-2 1/2 oz/30 oz water. Preventative: seeds/transplants: 1/2-1 oz/qt water; soil amendment: 1 cup/5 gals water; foliar spray: 1/2 cup/1 gal water.

**1459200** The Amazing Dr. Zymes Eliminator - Quart RTU **\$12.95**  
**1459201** The Amazing Dr. Zymes Eliminator - Quart Conc. **\$32.95**  
**1459202** The Amazing Dr. Zymes Eliminator - Gallon Conc. **\$115.95**  
**1459203** The Amazing Dr. Zymes Eliminator - 2.5 Gal. Conc. **\$275.00**

Larger sizes available.

Cannot be shipped to the following states: AL, CT, DC, ID, IN, KS, LA, ME, MS, NE, NM, ND, SD



## FORTIFY Fungicide

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

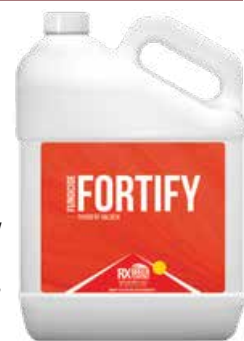
**TARGET:** Use to prevent and cure Powdery Mildew.

**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.

**3000560** FORTIFY Fungicide - 1 Gallon Concentrate **\$154.99**

Cannot 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





## The Power of Peroxyacetic Acid

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

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

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

## SaniDate® 5.0



An OMRI Listed Sanitizer/Disinfectant.

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

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

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

**1222515** SaniDate 5.0 - 2.5 Gallons **\$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.



## OxiDate® 2.0



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

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

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

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

**1222501** OxiDate 2.0 - 2.5 Gallons **\$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



## ZeroTol® 2.0



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

**TARGET:** *Alternaria*, *Anthraxnose*, *Aphanomyces*, molds & mildews, bacteria, spots & rots, *Erwinia*, *Phytophthora* (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



## PERpose Plus™



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

**TARGET:** *Algae, anthracnose, Alternaria, Aphanomyces, blights, downy mildew, Fusarium, Erwinia, Phytophthora, powdery mildew, Plasmopara, Pythium, Pseudomonas, rust, scab, Sclerotinia, smut, spots, Rhizoctonia, Thielaviopsis, and Xanthomonas.*

**DESCRIPTION:** This hydrogen peroxide-based organic product works by oxidizing the outer cell membrane of vegetative endospore, fungus, algae, yeast and mold spore cells. The oxygen released in this process helps relieve anaerobic conditions. This proprietary formula also contains stabilizers and buffers that counteract phytotoxicity. This allows you to use this product freely over all plant material and into the root zone without fear of damaging delicate plants. PERpose Plus contains no peracetic acid and is odor free. You can apply this to any part of the plant, in chemigation/fertigation systems and on non-porous surfaces.

**SUGGESTED USE:** Do not apply in dry, extremely hot conditions. For curative purposes: Dilute 1:100 or 1 fl oz/gal water and apply for 3 consecutive days. Maintain at the preventative rate of 1/3-1/4 fl oz/gal water weekly.

**1223000** PERpose Plus - 5 Gallons\* **\$230.00**

Larger sizes available.

\*PERpose Plus requires a freight shipping quote to ship all sizes. Cannot be shipped to residential addresses.

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



## TerraClean® 5.0



Eliminate Soil-Borne Pathogens With This Hydrogen Dioxide & Peroxyacetic Acid Blend.

**TARGET:** *Botrytis, Erwinia, Fusarium, Phytophthora, Pythium, Rhizoctonia, Thielaviopsis and Verticillium.*

**DESCRIPTION:** When this combination of Hydrogen Dioxide and Peroxyacetic Acid in TerraClean goes to work, the chemical reaction provides a three-fold benefit to your plants. First, it reacts with and disrupts the proteins and enzymes that make up the cell structures of pathogens (bacteria, fungus and spores), which will prove fatal. Second, it releases a high volume of oxygen that floods the root zone, stimulating root and plant development and nutrient uptake. Third, it creates a healthier soil environment overall, which translates into more robust plants that are able to keep diseases at bay.

**SUGGESTED USE:** For use as a direct soil treatment, a pre-plant application, at seeding and transplanting or as a periodic soil treatment throughout the growing season. Can be used in flood or drip irrigation, chemigation or as a soil drench. For soil treatments dilute at the rate of 1 gal. product/100 gal. water. Use 25-100 gals./acre. In areas with high disease pressure use 100 gals./acre. Call or go online for specifics on other application methods.

**1222550** TerraClean 5.0 - 5 Gallons **\$415.00**

Cannot be shipped to the following states: AL, HI, IA



## 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. It uses 4 core enzymes: cellulose, xylanase, hemicellulose and beta-glucanase to provide the power in its potion. Working synergistically, these enzymes provide all the ingredients needed to thoroughly break down decaying plant matter. The resultant clean root zone prevents diseases such as root rot by improving drainage and aeration in the growing media. A cleaner root zone will also give your young roots more space to grow exuberantly and more efficient access to nutrients to truly 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 fresh with each application and use it up within 7 days. Do not per-dilute. Mix 8-10 mL /gal of water or nutrient solution. Use with every watering or in your feeding schedule. For propagation: Use mL/gal water to soak trays and media prior to use. After harvest, use 10-15 mL/gal. water to wash equipment. Once cleaned, sanitize equipment with H2O2 at 3% concentration.

**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**

Larger sizes available.



## ZeroTol® HC



Clean Up & Protect Your Plants With One Powerful Product.

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

**DESCRIPTION:** ZeroTol HC has been designed for use in hemp and cannabis production and for homeowners and hobby growers. Use this OMRI listed product on hard, non-porous surfaces to eliminate pathogens that linger there. It can also be applied to soil and directly to all kinds of plants to prevent/treat/control many common plant diseases and algae growth. Made from Hydrogen Peroxide and Peroxyacetic Acid. No strong odor or toxic residue.

**SUGGESTED USE:** Do not combine or mix with any other pesticide concentrates. Do not reuse solution; make fresh daily. Surfaces/equipment: Dilute at 1:150 or .85 fl oz/gal water. Foliar: Dilute at 1:150 or .85 fl oz/gal water for initial treatment. Apply as needed for control. For prevention: Apply every 5-7 days at 1:200 or 0.64 fl oz/gal water. If disease reappears, apply every 3 days. Turf: Dilute 1.3 fl oz/gal water. 3-10 gals treats approximately 1,000 sq ft.

**1222410** ZeroTol HC - 1 Gallon **\$37.99**





## Repeater™ & Little Pete® Multiple Catch Mouse Traps

Catch & Release Multiple Mice At Once!

TARGET: Mice.

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

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



- |                |                                       |                |
|----------------|---------------------------------------|----------------|
| <b>1255101</b> | Little Pete Multiple Catch Mouse Trap | <b>\$13.40</b> |
| <b>1255100</b> | Repeater Multiple Catch Mouse Trap    | <b>\$14.99</b> |

## The Smart Mouse Trap

A Humane Solution For Trapping Pesky Mice!

TARGET: Mice.

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

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

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| <b>1255001</b> | Smart Mouse Trap - 1 Per Box | <b>\$14.20</b> |
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## BONIDE® Mouse Magic Mouse Repellent

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

TARGET: Mice.

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

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

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| <b>1287710</b> | BONIDE Mouse Magic Mouse Repellent 4 Pack  | <b>\$9.00</b>  |
| <b>1287711</b> | BONIDE Mouse Magic Mouse Repellent 12 Pack | <b>\$22.50</b> |

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.

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| <b>1287720</b> | BONIDE Rat Magic Scent Packs - 8 Count | <b>\$18.99</b> |
| <b>1287721</b> | BONIDE Rat Magic Granules - 5 lbs..    | <b>\$18.99</b> |

Cannot be shipped to the following states:

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



## BONIDE® Repels-All® Animal Repellent

Natural Ingredients That Repel  
A Variety Of Critters!

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

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

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



<b>1287601</b>	BONIDE Repels-All - 1 Quart RTU	<b>\$13.99</b>
<b>1287605</b>	BONIDE Repels-All - 1 Quart RTS	<b>\$27.65</b>
<b>1287606</b>	BONIDE Repels-All - 1 Gallon RTU w/Power Sprayer	<b>\$44.85</b>
<b>1287600</b>	BONIDE Repels-All - 1 Quart Concentrate	<b>\$21.50</b>

Cannot be shipped to the following states: IN, NM

## 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.



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

## 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.

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



## Victor® Dual Action Mole & Gopher Repellent

Dual Action, Poison-Free Formula  
Deters Digging Pests By Taste & Smell.

**TARGET:** Moles, voles, gophers, armadillos and other burrowing animals.

**DESCRIPTION:** This repellent uses Castor Oil combined with Fuller's Earth to create a distinctly unpleasant underground environment for burrowing pests. The odor and taste of this combination penetrates into existing tunnels and discourages new tunneling, which compels the animals to relocate. Although repulsive to diggers, this product is not harmful to people or pets.

**SUGGESTED USE:** Move the pests off the property gradually by directing the application of granules in stages. Start in an area where the lawn is still good or nearest structures and gradually work in concentric lines toward the border of the property. Place the granules at 5 foot intervals, apply daily for at least 4 days in the concentric lines until you reach the edge of the property. Water the granules after each application.

<b>1287510</b>	Victor Mole & Gopher Repellent - 4 lbs.	<b>\$18.99</b>
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Cannot be shipped to the following states: ME, MT, NM



# CRAWLING INSECT CONTROL



## Beneficial Nematodes - Triple Threat

### Biological Control For Crawling Insects!

The Triple-Threat Combo includes one package of each of the Beneficial Nematodes that ARBICO Organics supplies: *Heterorhabditis bacteriophora*, *Steinernema feltiae* and *Steinernema carpocapsae*. Use the Triple Threat to combat a broad variety of soil developing pests! Safe for use around home and gardens! **See pages 17-19 for more information.**

## ANT CONTROL

### Monterey Ant Control



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

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

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

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

**1257895** Monterey Ant Control - 1 lb. Shaker Can **\$7.49**  
**1257896** Monterey Ant Control - 2.5 lb. Jug **\$14.99**

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



## FIRE ANT CONTROL

### Orange Guard® Fire Ant Control



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

**TARGET:** Fire ants.

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

**SUGGESTED USE:** Puncture the mounds and then saturate them, using 1/2 gallon of either full strength or diluted (3 parts water to 1 part Orange Guard Fire Ant Control). Dilution does not harm grass and covers approx. 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 **\$11.49**  
**1460002** Orange Guard Pest Control - 1 Gallon with Sprayer **\$36.49**  
**1460003** Replacement Sprayer for 1 Gallon Orange Guard **\$5.30**





## Harris Famous Roach Tablets



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

**TARGET:** Roaches, waterbugs, silverfish and ants.

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

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



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

## Harris Borax Liquid Ant Killer



A Few Well-Placed Drops Of This Bait & Ants Will Fade Away.

**TARGET:** Common household "sweet-eating" ants. Not effective on pharaoh ants, carpenter ants, fire and harvester ants.

**DESCRIPTION:** In order to eliminate an ant problem, you need to get into the colony and right to the queen. This sweet bait will do just that. It works slowly enough that the foraging worker ants are unaware of its danger and will take it home and share it with their queen and the other ants. Before long, the queen will be dead and the colony eliminated.

**SUGGESTED USE:** Before placing out bait trays, remove all food sources so that the primary food source for the ants will be the bait. Place where ants have been seen and place several out at a time. Remove bottle from packaging, unscrew cap and remove foil seal. Pour a few drops of liquid ant killer inside the bait tray. Place in areas accessible to insects but inaccessible to children and pets. Inspect bait trays periodically and re-apply liquid ant killer as needed.



**1257410** Liquid Ant Killer - 9 Bait Trays w/3 oz. Liquid Bait **\$7.99**

## EcoPCO® AR-X Multi-Purpose Insecticide

Quick Pest Knockdown In A Gentle Botanical-Based Formula!

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

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

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

**1457403** EcoPCO® AR-X Multi-Purpose Insecticide - 17 oz. **\$19.49**  
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 available.

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



## INDOOR PEST TRAPS

### Harris Roach Traps



This First Step In Total Roach Control Is Their Last Step.

**TARGET:** American cockroaches, German cockroaches, palmetto bugs and waterbugs.

**DESCRIPTION:** These easy-to-use traps are spiked with an attractant that roaches find irresistible. Simply place them where insects have been seen and dispose of the trap when it's full. These traps can be used where sprays and gels may not reach or be safe to use. Designed to lie close to the ground for discreet placement under furniture, appliances and even bedding. For optimal roach control, use in conjunction with another type of roach killer, like a spray.

**SUGGESTED USE:** (1) Peel off protective paper. (2) Fold the trap and insert the tab at top to hold it together. (3) Fold end flaps inward to form a 30° angle. (4) Place the trap in a location where insects are likely to travel or hide. (5) Check the trap regularly and discard when it's covered with insects - or every 90 days.



1219552 Harris Roach Traps - 2 pk \$6.79

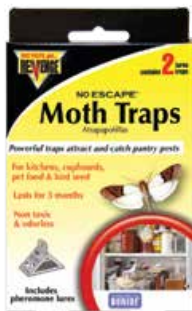
### REVENGE® Pantry Moth Trap

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 \$6.29  
 1280303 Revenge Pantry Moth Trap - 2 Per Pack/Pack of 3 \$18.30  
 1280304 Revenge Pantry Moth Trap - 2 Per Pack/Pack of 6 \$35.40  
 1280305 Revenge Pantry Moth Trap - 2 Per Pack/Pack of 12 \$66.00

### Harris Plug-In Flea & Insect Trap with Night Light Attractant



These Traps Work Quietly In The Night To Capture Insect Pests.

**TARGET:** Fleas and other flying and crawling insects that are attracted to light.

**DESCRIPTION:** This trap works under the simple principle that fleas, and many other insects, are drawn to light and warmth. Simply plug it into a wall outlet and they will make their way towards it. When the insects reach the trap, they will be securely trapped by the glue board. There is a light sensor in this trap that turns the bulb on automatically when the room is dark enough (and back off when the room lightens), so you don't have to remember to turn it on or off.

**SUGGESTED USE:** Fold the tabs away from you along the dotted lines. The tabs should now be at a 90° angle to the card. Flip the card over (to the unprinted side) and peel away the protective backing. Holding the card carefully by its edges, insert the folded tabs into the slots near the top of the trap. Press card in to make contact with the trap. Rotate the plug so it faces outwards. Plug the trap into the bottom input of a wall outlet. For best results, use in a fully dark room and used one trap in each room where insects are an issue.



1280120 Plug-In Flea & insect Trap w/Night Light \$13.99  
 1280125 Refill Glue Boards - 4 pk \$6.49

### 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



See full line of Bed Bug Control online.

## SaniDate® Sanitizing Wipes

An Easy-To-Use And Natural Cleaning Alternative To Chlorine, Quat & Phenol Cleaners.

**TARGET:** Easily and safely cleans and deodorizes hard surfaces wherever you go.

**DESCRIPTION:** SaniDate Sanitizing Wipes contain an activated form of hydrogen peroxide that can be used as an alternative to chlorine to sanitize various non-porous hard surfaces. Use SaniDate Sanitizing Wipes to clean floors, kitchen surfaces and food preparation areas. In addition, this product is great to have on hand for gardeners as it can be used to clean gardening tools, seed starting trays, buckets, potting containers, gardening gloves and can be used to clean interior surfaces of cold frames and greenhouses.

**SUGGESTED USE:** Clean grease, food particles and other substances from surfaces with detergent before use. Remove lid, pull wipe from center of roll and thread corner through opening in the lid and replace lid. Wipe surface and let sit for 1-5 minutes, depending on use. Allow for product to air dry and do not rinse with water. Make certain the lid is snapped shut after use. Dispose of wipes in trash and do not use on skin or flush for disposal.

**1222513** SaniDate Sanitizing Wipes - 125 Count **\$13.50**



## SaniDate® All Purpose Disinfectant



It May Not Wipe Away All Your Worries, But It Will Clean Many Pathogens.

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

**DESCRIPTION:** This simple-to-use cleaner is an antibacterial, disinfectant and deodorant. It works with Hydrogen Peroxide and Peroxyacetic Acid and kills 99.9% of *Pseudomonas aeruginosa*, *Staphylococcus aureus* and *Salmonella enteri* bacteria. This OMRI listed product also controls mold and mildew and is excellent for spot-cleaning rugs. Works on contact, is bleach and scent free and leaves no harmful residue.

**SUGGESTED USE:** Not recommended for use on brass or marble. Can be used daily. 32 fl oz solution: 0.75 fl oz (1.5 tbl) + 32 fl oz/water. 1 gal solution: 3.0 fl oz (6 tbl) + 1 gal/water. Pre-clean heavily soiled surfaces. Spray using a coarse spray until area is thoroughly wet. Treated surface must remain wet for 10 minutes and then be allowed to air dry. Rinse food contact surfaces prior to reuse. Cleaning mold/mildew: Use 2.5-3.0 fl oz/gal water. After 10 minutes, remove solution and soil. Repeat every 7 days or more often if new growth appears.

**1222520** SaniDate All Purpose Disinfectant - 1 Gallon **\$27.95**

**1222522** SaniDate All Purpose Disinfectant - 1 Gallon/Case 2 **\$36.50**



## SaniDate® Hard Surface Sanitizer



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

**TARGET:** Effective against gram positive and gram negative bacteria like *Staphylococcus aureus* (Staph), *Klebsiella pneumoniae* and *Escherichia coli* (E. coli).

**DESCRIPTION:** This ready-to-use product is an activated form of hydrogen peroxide used for sanitizing hard non-porous surfaces, including food contact areas. It can be used to disinfect floors, walls, stainless steel, plastic, gardening utensils, greenhouses, kitchen surfaces, food preparation areas and more.

**SUGGESTED USE:** Do not dilute. Clean grease, food particles etc. from surface with detergent before use. Spray 6"-8" from surface until it's thoroughly wet. Let sit for 1-5 minutes depending on use, allow for product to air dry and do not rinse with water.

**1222510** SaniDate Hard Surface Sanitizer - 1 Qt. RTU **\$9.00**

**1222511** SaniDate Hard Surface Sanitizer - 1 Gal. RTU **\$27.95**



## Vital Oxide

Kill Dangerous Bacteria & Viruses On All Surfaces.

**TARGET:** Kills MRSA, *Pseudomonas aeruginosa*, *Escherichia coli*, *Salmonella enterica*, *Staphylococcus aureus*, *Legionella pneumophila*, *Aspergillus niger*, norovirus, human immunodeficiency virus type 1 (HIV-1), *Enterobacter aerogenes*, *Listeria monocytogenes*, *Acinetobacter baumannii*, *Rotavirus*, H1N1 virus, hepatitis B, hepatitis C, *Klebsiella pneumoniae* and more.

**DESCRIPTION:** Vital Oxide uses chlorine dioxide to create a fast-acting, environmentally friendly, ultra-effective broad-spectrum antibacterial cleaner that provides odor elimination, allergen elimination, hospital disinfection, sanitation of food contact surfaces and mold/mildew removal and prevention. This product comes to you hospital-grade and ready-to-use or it can be diluted to fit your needs. It can be sprayed on, wiped on or used in a fogger. This EPA registered, non-corrosive cleaner will leave no strong odor or offensive taste.

**SUGGESTED USE:** Use full strength for heavy soil/filth, to disinfect hard non-porous surfaces, to prevent mold & mildew and to deodorize. Dilute for use on floors, carpets and food and non-food contact hard non-porous surfaces.

**1457650** Vital Oxide - 3 oz. Spray **\$6.25**

**1457651** Vital Oxide - 3 oz. - Bundle of 3 **\$16.50**

**1457652** Vital Oxide - 3 oz. - Bundle of 5 **\$25.00**

**1457655** Vital Oxide -32 oz. (1 Quart) Trigger Sprayer **\$14.95**

**1457657** Vital Oxide - 128 oz. (1 Gallon) **\$45.95**





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ARBICO Organics Team

## 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 schedule so you won't run out. Popular auto ship products include: Fly Eliminators, Beneficial Nematodes, Predatory Mites as well as most in stock pest control and soil health products.

## 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.**



## 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 ≈ 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.

## CUSTOMER SERVICE

**All phone calls answered by a live person during regular business hours:** Monday through Friday, 8:00 AM - 4:30 PM (Arizona Time)

• 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](http://www.omri.org).

## 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 [www.arbico-organics/category/return-policy](http://www.arbico-organics/category/return-policy). 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.

## 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 - 4:30 PM  
(Arizona Time)





10831 N. Mavinee Dr., Suite 185  
Oro Valley, AZ 85737

Presorted  
Standard  
U.S. Postage  
**PAID**  
ARBICO

# ARBICO FLY ELIMINATORS<sup>®</sup>

SERIOUS FLY CONTROL



*"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 Prices!

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, 2020.**

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

\*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. © 2020 Arizona Biological Control, Inc.

**SPECIAL OFFER**

**\$10 OFF**

**Any Order of \$75 or More**

With your catalog order or online purchase at [arbico-organics.com](http://arbico-organics.com).

**Special Offer Code: Winter20**

Expires: 12/31/2020 • Minimum \$75 purchase.

Cannot be used on Fly Eliminators • Cannot be used with any other offers  
Cannot be used on items with free shipping



1-800-827-2847 • [www.arbico-organics.com](http://www.arbico-organics.com)



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09/2020