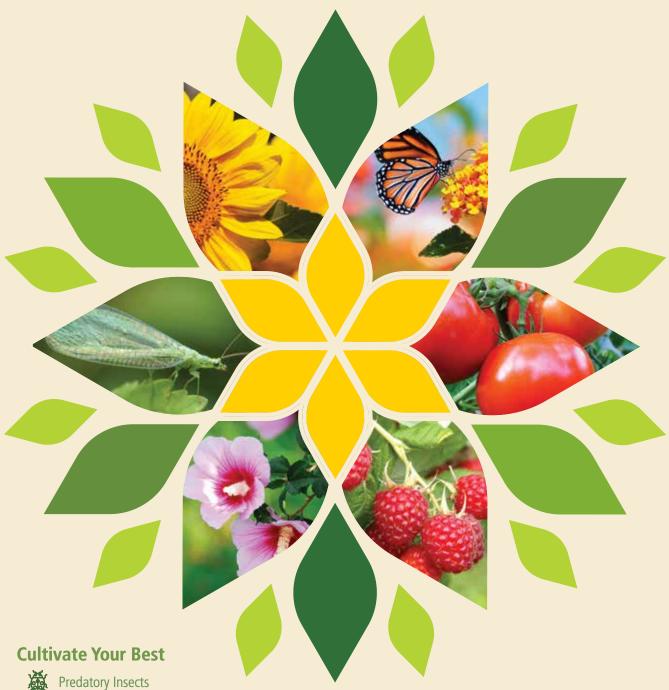
# ARBICO OT SUMMER 2023







Biorational Insecticide



Amendments & Fertilizers



Weed & Disease Control



# Contents





# HOW TO CONTACT US:

800-827-2847

www.arbico-organics.com customercare@arbico.com

**OFFICE & STORE HOURS:** 

Monday - Friday: 8:00ам - 4:30рм (Arizona Time)

# Providing over forty years of environmental stewardship and service to our customers.

ARBICO Organics began in 1979 when Rick Frey embarked on a new endeavor in Tucson, AZ - rearing and selling insects that parasitize developing flies (Fly Eliminators™). Rick's wife, Sheri, had a passion for the environment and the two teamed up to become pioneers of organic growing, promoting their philosophy of "bio-balance" by offering customers sustainable pest control alternatives.

Over the years, we have expanded our product line to meet our customers' diversified needs and our team continues to grow to provide our customers with support and knowledge!



# We proudly rear insects at our insectary in Catalina, AZ.

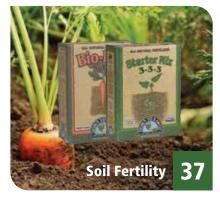
We continue to challenge ourselves to provide the best products we can and to deliver them in a timely manner to our customers. What started with one bug has grown to include so much more and we continue to thank the support of our customers and our community of family, friends and coworkers who have made this all possible!

# **NATURAL & ORGANIC IPM SOLUTIONS**

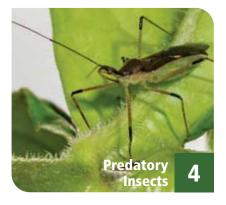
























#### POWERFUL PEST CONTROL



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 in an infestation. For heavy infestations, release 500-1,000 eggs weekly in no more than 2,000 square feet. Release 5-10 thousand eggs biweekly per acre. Shipped as eggs, assassin bugs will typically hatch in under a week.

 Temperature: 55-110°F
 Relative Humidity: 10-75%

 1000105
 ≈ 250 Eggs
 \$25.00

 1000106
 ≈ 500 Eggs
 \$40.00

 1000107
 ≈ 1,000 Eggs
 \$65.00

Larger sizes available.

<sup>\*</sup>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%

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

**Overnight Shipping Required** 



Green Lacewing are an economical addition to IPM programs in gardens and greenhouses for soft-bodies insect control. Larvae are voracious predators of the eggs and immature stages of aphids, thrips, whiteflies, leafhoppers, eggs of pest moths and mealybugs. Most effective when introduced preventatively and repeatedly throughout the growing season.

#### **ADVANTAGES**

- Great for outdoor and warmer temperatures
- Economical sizes for gardens
- Available as eggs, larvae and adults for customizable control



# **Looking For Ladybugs?**

If you are looking for ladybugs, we encourage you to consider one of our other generalist or specialist insects. Generalists work great when pests are varied. Specialists will target specific pest infestations. Keep in mind predacious life stages, active temperatures and ordering lead times for how quickly control is needed. A knockdown spray used prior to application of predatory insects may be necessary.

If You're Unsure Which Beneficial Insect or Predator to Choose, Call One of Our Specialists at 1-800-827-2847.

# **Green Lacewing -** *Chrysoperla spp.*

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

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

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



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

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

#### **GREEN LACEWING EGGS:\***

1110011	≈5,000 Eggs	\$27.00
1110016	≈10,000 Eggs	\$37.80
1110012	≈25,000 Eggs	\$75.00
1110013	≈50,000 Eggs	\$123.75
1110100	≈5,000 Eggs on Cards	\$30.00
1110102	≈10,000 Eggs on Cards	\$45.00
1110105	≈25,000 Eggs on Cards	\$90.00

#### **GREEN LACEWING LARVAE:**

1110005	≈400 Larvae in Hex Frame	\$27.00
1110010	≈1,000 Larvae in Bottle	\$26.00
1110030	≈5,000 Larvae in 5 Liter Bag	\$105.00
1110032	≈10,000 Larvae in Bucket	\$180.00

#### **GREEN LACEWING ADULTS:**

1110006	≈100 Adults	\$50.00
1110004	≈250 Adults	\$90.00
1110007	≈500 Adults	\$160.00
1110019	≈1,000 Adults	\$180.00

**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	

#### Weekly Programs and Discounts Available 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.

## **Aphid Predator -** *Aphidoletes aphidimyza*

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

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

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



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

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

1101001	≈1,000 Pupae	\$60.00
1101002	≈1,000 Pupae in 4 x 250 Blister Packs	\$65.00
1101004	≈2,000 Pupae	\$90.00
1101005	≈10,000 Pupae	\$250.00

**Overnight Shipping Required** 

# **Aphid Parasite -** Aphidius colemani

Exceptional In Greenhouses Producing Vegetables & Ornamentals.

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

**DESCRIPTION:** These tiny (1/8") parasitic wasps specifically target aphids to provide food and a place to oviposit. The adults respond to alarm signals from

plants to locate the aphids and, once there, they feast on the honeydew produced by the aphids. The females will then lay their eggs inside aphid nymphs. The larvae will hatch and devour the aphid from inside, turning it into a mummy. The parasites are shipped to you in this stage; simply place them where the infestation is. Once mature, the adult wasp will chew its way out of the mummy and begin hunting aphids.

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

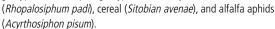
**Temperature:** 70-77°F **Relative Humidity:** High ≈80%

1101302	≈500 Mummies	\$43.00
1101301	≈1,000 Mummies	\$54.00
1101300	≈1,000 Mummies in 10 x 100 Blister Packs	\$56.00
1101303	≈5,000 Mummies	\$189.00
1101305	≈5,000 Mummies in 50 x 100 Blister Packs	\$195.00
1101304	≈10,000 Mummies (2 x 5,000)	\$340.00
	Overnight Shipping Required	



These Ravenous Predators Will Eat & Parasitize Aphid Nymphs!

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



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

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

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

**1101101** ≈250 Mummies **\$83.00 1101103** ≈1,000 Mummies **\$235.00** 

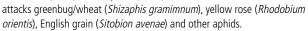
**Overnight Shipping Required** 

# **Aphid Parasite -** *Aphidius ervi*

This Non-Stinging Parasitic Wasp Attacks Larger Aphid Species.

Image Citation: Alex Wild

**TARGET:** Aphids, especially potato (*Macrosiphum euphorbiae*), glasshouse potato (*Aulacorthum solani*), green peach (*Myzus persicae*), foxglove (*Aulacorthum solani*) and pea aphids (*Acyrthosiphon pisum*). Also



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

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

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

1001001	≈250 Mummies	\$65.00
1001002	≈500 Mummies	\$100.00
1001003	≈1,000 Mummies	\$150.00
1001004	≈1,000 Mummies in 10 x 100 Blister Packs	\$155.00
1001005	≈5,000 Mummies	\$550.00

**Overnight Shipping Required** 



ohidius ervi



# Integrated Pest Management of Whiteflies

- 1. Carefully inspect new plants before transplanting.
- 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.
- Release Green Lacewing preventatively before infestation becomes severe.
- 5. Consider specialist parasites and predators for targeted whitefly infestations.
- 6. For quick knockdown control, consider sprays with a low environmental impact such as *Beauveria bassiana* products (see page 32) or Neem based sprays.
- 7. Clean tools and equipment as well as greenhouse structures between growing seasons. Shop Cleaning & Sanitizing online at www.arbico-organics.com

### 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 tabacı*), silverleaf whiteflies (*Bemisia argentifolii*), and banded-winged whiteflies (*T. abutiloneus*) and others.



\$94.95

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

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

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

**1000703** ≈5,000 in 20 x 250 Blister Packs

**Overnight Shipping Required** 

### Whitefly Parasite - Encarsia formosa



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



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

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

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

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

#### 2nd Day Shipping Required

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

# Whitefly 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

1126001	≈100 Count	\$50.00
1126003	≈200 Count	\$90.00
1126002	≈1.000 Count	\$190.00

**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**

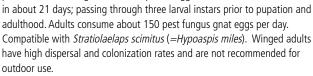
- 1. Monitor and trap with yellow sticky traps to assess the severity of infestation.
- Control soil moisture by providing proper drainage, avoiding standing water and allowing media to dry between waterings.
- 3. Circulate air and prune plants to ensure adequate air flow.
- 4. Prevent and treat infestations with *Bacillus thuringiensis israelensis* (see page 22).
- 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



**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%

1101330	≈500 Adults	\$54.00
1101331	≈1,000 Adults	\$78.00
1101332	≈3,000 Adults	\$170.00
1101334	≈5.000 Adults	\$250.00

**Overnight Shipping Required** 

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

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

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



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

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

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

1154000	≈12,500 Count	\$21.00
1154002	≈25,000 Count	\$30.00
1154005	≈50,000 (2 x 25,000)	\$50.00
1154010	≈125 000 in 5 Liter Bag	\$130.00

**Overnight Shipping Required** 

# Control Fungus Gnat Larvae Using Bacillus thuringiensis israelensis

Include applications of Bti in your fungus gnat IPM plan. Bti works to control larvae, the stage fungus gnats are most damaging to plant roots.

It can be used in conjunction with Beneficial Nematodes and Fungus Gnat predators as part of an IPM plan. For additional fungus gnat control solutions, see page 22.



# NemAttack™ 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 or ba



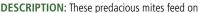
watering can, hose end sprayer or backpack sprayer. See pages 15-17 for more information.

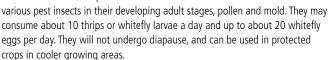
# Thrips & Whitefly Predator -

### 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.





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

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

#### **BULK SIZES:**

1101312	≈25,000 in Tube	\$68.00	
1101319	≈50,000 in Tube	\$120.00	
1101311	≈125,000 in 5 Liter Bag	\$240.00	
1101309	≈200,000 Bulk	\$340.00	
CONTROLLED DELEACE			

#### CONTROLLED RELEASE:

1101317	≈50,000 in 200 Mini Sachets w/Hooks	\$140.00
1101308	≈62,500 in 250 Mini Sachets w/Hooks	\$170.00
1101318	≈62,500 in 500 Mini Sachets on Sticks	\$245.00
1101306	≈125,000 in 500 Mini Sachets w/Hooks	\$250.00
1101316	≈125,000 in 1,000 Mini Sachets w/Hooks	\$365.00
1101314	≈125,250 in 6 x 328 ft. Strips of Sachets	\$500.00
1101315	≈250,000 in 1,000 Mini Sachets w/Hooks	\$480.00

**Overnight Shipping Required** 

### Thrips Predator - Amblyseius cucumeris

These Beneficial Mites Consume Vast Quantities Of Thrips.

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

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

**SUGGESTED USE** (Depending upon level of infestation): For best results, apply before onset of thrips infestation. For prevention, use at a rate of 10-20 mites per sq. ft. at weekly intervals. Use continuous release sachets at 1 per 3 sq. ft. for 3-6 weeks. Spot treat with 10-40 mites per sq. ft. weekly until infestation subsides. Monitor with blue sticky traps (see page 19).

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

#### **BULK SIZES:**

1152230	≈20,000 in Bran only	\$22.00
1152231	≈20,000 in Vermiculite only	\$22.00
1152207	≈25,000 in Bran/Vermiculite Mix	\$30.00
1152233	≈50,000 in Bran only	\$47.00
1152224	≈50,000 in Vermiculite only	\$47.00
1152204	≈50,000 in Bran/Vermiculite Mix	\$45.00
1152205	≈100,000 in Bran only	\$60.00
1152234	≈100,000 in Vermiculite only	\$60.00
1152235	≈250,000 in Bran only	\$120.00
1152223	≈250,000 in Vermiculite only	\$120.00
1152206	≈250,000 in Bran/Vermiculite Mix	\$115.00
1152209	≈500,000 in Bran/Vermiculite Mix	\$200.00

#### **CONTROLLED RELEASE W/HOOKS:**

1152215	≈25,000 in 100 Mini sachets w/Hooks	\$25.00
1152219	≈125,000 in 500 Mini Sachets w/Hooks	\$68.75
1152201	≈200,000 in 200 Sachets w/Hooks	\$90.00
1152221	≈200,000 in 400 Mini Sachets w/Hooks	\$80.00
1152222	≈250,000 in 1,000 Sachets w/Hooks	\$135.00
1152228	≈500.000 in 500 Mini Sachets w/Hooks	\$185.00

#### **CONTROLLED RELEASE ON STICKS:**

1152216	≈25,000 in 100 Mini Sachets on Sticks	\$25.00
1152225	≈125,000 in 500 Mini Sachets on Sticks	\$105.00
1152226	≈250,000 in 1,000 Mini Sachets on Sticks	\$150.00
1152227	≈500,000 in 2,000 Mini Sachets on Sticks	\$280.00

#### **CONTROLLED RELEASE-SPECIALTY:**

1152203	≈300,000 in 300 GEMINI Sachets	\$115.00
1152220	$\approx$ 1,600,000 in 6 x 525 ft. Strips of Sachets	\$600.00

**Overnight Shipping Required** 

#### 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.

**SUGGESTED USE** (Depending upon level of infestation): For best results, apply as a preventative treatment of mite infestations. Sachets allow for controlled release of mites over 4-6 weeks. Apply at a rate of 1-2 mites per sq. ft. or 1 sachet per plant. Place sachets within plant canopy. Use sachets on sticks at 1 per propagation tray or where canopy cannot hold sachet on hook. Replace sachets every four weeks for continued control.

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

#### **BULK SIZES:**

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

#### CONTROLLED RELEASE:

1101323	≈25,000 in 200 Mini Sachets w/Hooks	\$160.00
1101350	≈25,000 in 200 Mini Sachets on Sticks	\$175.00
1101325	≈62,500 in 250 Sachets w/Hooks	\$225.00
1101355	≈125,000 in 1,000 Mini Sachets on Sticks	\$720.00
1101322	≈125,250 in 6 x 328 ft. Strips of Sachets	\$670.00

**Overnight Shipping Required** 

# Spider Mite Destroyer - Feltiella acarisuga

We Recommend This Predator When Spider Mite Infestations Are Widespread.

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

**DESCRIPTION:** The larvae of this tiny gall-midge feeds on two-spotted spider mites and various other species of spider mites. Recommended to be used with

*P. persimilis* when spider mite infestations are severe to rapidly knock back the pest mites. Feltiella works best on plants that have hairy stems. Adults do not prey on spider mites, but search for colonies and deposit eggs next to them. Eggs hatch in 2 days and larvae feed on all stages of spider mites for 4-6 days. The entire life cycle is about 15 days.

**SUGGESTED USE** (Depending upon level of infestation): For light infestations, introduce <1/1,000 sq. ft. or 500/acre every 7 days, for at least 3 weeks. For heavy infestations, introduce 2-3/1,000 sq. ft. or 1,000/acre every 7 days, for at least 3 weeks.

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

**1155701** ≈250 Count **\$144.00** 

**Overnight Shipping Required** 



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

Good For Areas Where Temperatures Fluctuate Greatly Such As Deserts.

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

**DESCRIPTION:** This tiny, ivory, pear-shaped predatory mite feeds on a variety of pests on crops including: cucumbers, tomatoes, strawberries, tropical foliage



plants, and greenhouse roses. Although adults consume prey at a relatively slow rate of about one egg per day, they can survive longer under starvation conditions. During their lifetime of about 20 days, females will lay approx. 1-3 eggs per day. Eggs hatch within a few days and adulthood is reached in about 4-12 days.

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

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

#### **BULK SIZES:**

≈2,000 Count	\$43.00
≈5,000 Count	\$65.50
≈10,000 Count (2 x 5,000)	\$106.00
≈25,000 Count	\$128.00
	≈5,000 Count ≈10,000 Count (2 x 5,000)

#### **CONTROLLED RELEASE W/HOOKS:**

1151216	≈10,000 - 100 Sachets w/Hooks	\$80.00
1151271	≈25,000 - 100 Sachets w/Hooks	\$85.00
1151215	≈25,000 - 200 Sachets w/Hooks	\$175.00
1151217	≈50,000 - 500 Sachets w/Hooks	\$270.00
1151276	≈62,5000 - 250 Sachets w/Hooks	\$135.00
1151277	≈125,000 - 500 Sachets w/Hooks	\$250.00
1151278	≈125,000 - 1,000 Sachets w/Hooks	\$750.00
1151279	≈250,000 - 500 Sachets w/Hooks	\$350.00

#### CONTROLLED RELEASE ON STICKS:

1151295	≈25,000 - 200 Sachets on Sticks	\$190.00
1151296	≈125,000 - 1,000 Sachets on Sticks	\$720.00

#### CONTROLLED RELEASE-SPECIALTY:

1151292	≈25,000 - 100 Gemini Sachets	\$190.00
1151290	≈125,000 - Bugline - 6 x 328 ft. Sachet Strips	\$625.00

**Overnight Shipping Required** 

### Sachets

Sachets are available as Hooks, Sticks, Gemini and Bugline. Find the option that works right for your needs.





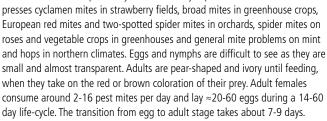
# **Mite Predator -** *Neoseiulus* (=Amblyseius) fallacis

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

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

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

**DESCRIPTION:** This predatory mite effectively sup-



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

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

1151400	≈500 Count	\$38.00
1151401	≈1,000 Count	\$52.00
1151402	≈2,000 Count	\$98.00
1151404	≈10,000 count	\$240.00

**Overnight Shipping Required** 

# **Spider Mite Destroyer -** *Stethorus punctillum*

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

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

**DESCRIPTION:** Using smell, this tiny ladybug is an effective locator and as an adult will consume more

than 40 mites per day. Females lay up to 15 eggs per day. Development to the adult stage takes around 18 days at a temperature of 70°F and the total lifespan of the predator is about 9 weeks. They are known to survive temperatures over 100°F in field crops.

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

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

**1113301** ≈100 Count **\$98.00** 

Subject to seasonal availability.

Overnight Shipping Required



### Mite Predator - Phytoseiulus persimilis

The Mite Predator With The Highest Consumption & Dispersal Rate.

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

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

**DESCRIPTION:** These 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. Adults will begin feeding as soon as they are applied.

**P. persimilis PLUS** is reared in an innovative way to include mobile mites (adults and juveniles) as well as eggs. *P. persimilis* PLUS arrives pale and changes to orange/red after predation begins. Adults begin feeding upon dispersal. Eggs can mature in about a week (at temps between 70-80°F). The variety of life stages allow for both immediate and ongoing control as the mites mature.

#### P. persimilis PLUS Sachets

PLUS Controlled Release sachet mites emerge between 8 -12 days after application. Best for preventative use. PLUS RAPID Release sachets are used for hot spot treatment with emergence around 3-5 days.

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

Level/Type	Bulk	Sachets
Low Infestation	1-3 Mites per sq.ft.	1 Controlled Release Sachet per 50 sq.ft.
Moderate Infestation/ Speckling	5+ Mites per sq.ft.	1 Rapid Release Sachet per 20 sq.ft.
Webbing/Outbreak	10+ Mites per sq.ft. after knockdown/cleaning	1 Rapid Release Sachet per 10 sq.ft.
Outdoor Crops	20,000 - 200,000 Mites per acre depending on infestation level	
Clones	1 Sachet per plant	

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

#### P. PERSIMILIS PLUS BULK SIZES:

1151250	PLUS ≈2000 Bottle	\$23.00
1151251	PLUS ≈4000 Bottle	\$40.00
1151252	PLUS ≈10,000 Bottle	\$85.00
1151253	PLUS ≈20,000 Bottle	\$120.00

#### P. PERSIMILIS PLUS CONTROLLED RELEASE:

1151235	PLUS ≈5,000 in 50 sachets w/hooks	\$50.00
1151236	PLUS ≈10,000 in 100 sachets w/hooks	\$95.00
1151230	PLUS ≈25,000 in 250 sachets w/hooks	\$225.00
1151231	PLUS ≈50,000 in 500 sachets w/hooks	\$387.50

#### P. PERSIMILIS PLUS RAPID RELEASE:

1151245	PLUS RAPID ≈5,000 in 50 sachets w/hooks	\$50.00
1151246	PLUS RAPID ≈10,000 in 100 sachets w/hooks	\$95.00
1151240	PLUS RAPID ≈25,000 in 250 sachets w/hooks	\$225.00
1151241	PLUS RAPID ≈50,000 in 500 sachets w/hooks	\$387.50

**Overnight Shipping Required** 

### Mealybug Parasitoid - Anagyrus spp.

**Stop Destructive Mealybugs With This** Beneficial Parasitoid.

Image Citation: All rights reserved to BioBee Sde Eliyahu 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%

1132060	≈100 Mummies	\$75.00
1132061	≈200 Mummies	\$80.00
1132072	≈500 Mummies	\$185.00

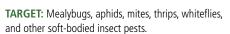
Currently only available for sale within the state of CA.

**Overnight Shipping Required** 

### Mealybug Destroyer - Cryptolaemus montrouzieri

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

Image Citation: Nijel Cruz





**DESCRIPTION:** Cryptolaemus is a small dark brown

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

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

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

1114702	≈100 Adults	\$77.00
1114703	≈250 Adults	\$110.00
1114704	≈500 Adults	\$210.00
1114705	≈1,000 Adults (2 x 500)	\$400.00
1114710	≈5,000 Adults (10 x 500)	\$1,200.00

**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%

1122001	≈10,000 Adults	\$75.00
1122002	≈25,000 Adults	\$80.00
1122003	≈50,000 Adults	\$120.00

**Overnight Shipping Required** 

### **Portable, Convenient & Provides** On the Spot Detection!





\$9.49

Active Eye 60X Clip-On Phone Microscope 2000200

Active Eye Microscope 100X

2000205 \$19.95



## MOTH EGG/CATERPILLAR CONTROL

# **Moth Egg Parasites -** *Trichogramma spp.*



Moth Egg Parasites

#### **Prevent Caterpillar Damage On Crops!**

**TARGET:** The egg stages of more than 200 *Lepidopteran* pests including: codling moths, borers, loopers, webworms, cutworms, bollworms, tomato hornworms and corn earworms.

**DESCRIPTION:** *Trichogramma spp.* lay their eggs in the pest eggs, killing them. Adults emerge 2-3 days after rel

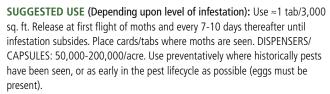
the pest eggs, killing them. Adults emerge 2-3 days after release. They live 7-75 days depending on temperature and moisture. *Trichogramma* are shipped in the parasitized host egg.

**Trichogramma Hanging Tabs/Cards:** Cards and tabs are the fastest way to introduce Trichogramma into the growing area. Eggs arrive on hanging cards for easy and targeted application in the plant canopy.

**Trichogramma Hanging Dispensers:** Dispensers are uniquely designed for early introduction and preventative use before high pest pressure. They are designed to have 4 *waves* of releases over approx. 180

days for continuous control. This format is more resistant to predator damage and is more weather resistant.

**Trichogramma Capsules:** Capsules also provide 4 *waves* of Trichogramma releases and are best used preventatively. They are designed for use by automation (drone, tractor), but also great for hard-to-reach areas. These sturdy capsules have precision release holes for exit over approx. 180 days.



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

#### Trichogramma brassicae

For low lying crops, cole crops; cabbage loopers and European Corn Borer.

10 000 /2 Taba)

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1131910	≈10,000 (3 labs)	\$18.50
1131903	≈20,000 (6 Tabs)	\$20.00
1131911	≈100,000 - 1 Card (30 Tabs)	\$40.00
BULK EGGS:		
1131950	≈100 <b>,</b> 000	\$32.00
1131955	≈1,000,000	\$225.00
CONTROLLED RELEASE -	DISPENSERS:	
1131963	≈62,500 - 25 Dispensers	\$43.75
1131965	≈125,000 - 50 Dispensers	\$62.50
CONTROLLED RELEASE -	CAPSULES:	
1131971	≈67,500 - 25 Capsules	\$47.25
1131972	≈135,000 - 50 Capsules	\$67.50
1131975	≈270,000 - 100 Capsules	\$108.00

#### Trichogramma minutum

East of the Rockies; budw	orms, leafrollers and codling moths.	
CARDS:		
1129001	≈10,000 (3 Tabs)	\$18.50
1129003	≈20,000 (6 Tabs)	\$20.00
1129010	≈100,000 - 1 Card (30 Tabs)	\$40.00
BULK EGGS:		
1129050	≈100,000	\$32.00
1129051	≈200,000 (2 x 100k)	\$60.00
1129052	≈500,000 (5 x 100k)	\$150.00
1129055	≈1,000,000	\$225.00

#### Trichogramma platneri

West of the Rockies, orcha	rds and tall crops.	
CARDS:		
1130001	≈10,000 (3 Tabs)	\$18.50
1130003	≈20,000 (6 Tabs)	\$20.00
1130030	≈100,000 - 1 Card (30 Tabs)	\$40.00
BULK EGGS:		
1130050	≈100 <b>,</b> 000	\$32.00
1130051	≈200,000 (2 x 100k)	\$60.00
1130052	≈500,000 (5 x 100k)	\$150.00
1130055	≈1,000,000 (10 x 100k)	\$225.00

#### Trichogramma pretiosum

General predator.		
BULK:		
1131055	≈1,000,000	\$225.00
CONTROLLED RELEA	ASE - DISPENSERS:	
1131062	≈62,500 - 25 Dispensers	\$43.75
1131065	≈125,000 - 50 Dispensers	\$75.00
CONTROLLED RELEA	ASE - CAPSULES:	
1131070	≈67,500 - 30 Capsules	\$37.50
1131071	≈135,000 - 60 Capsules	\$60.00
1131075	≈270,000 - 90 Capsules	\$67.50

#### Mix - brassicae, minutum, planteri

IVIIX - Drassicae, i	ninutum, pianteri	
For multiple pests ar	nd crops.	
CARDS:		
1130201	≈10,000 (3 Tabs)	\$20.00
1130202	≈20,000 (6 Tabs)	\$25.00
1130210	≈100,000 - 1 Card (30 Tabs)	\$36.00
Trichogramma os	striniae	
Primarily for Europea	an Corn Borer.	
BULK EGGS:		
1130155	≈1,000,000	\$225.00

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. DISPENSERS/CAPSULES: May require 1 week lead time. See website for more information.

¢40 F0

# NemAttack™ Beads Encapsulated Beneficial Nematodes





Convenient application for control of common plant pests in the soil developing stage.

No Refrigeration Required • No Mixing Required





Available as Steinernema feltiae and Steinernema carpocapsae



# **Apply To Soil For Control Of Target Pests:**

- Borers
- Fungus Gnats
- Thrips

- Caterpillars
- Flea Beetles
- 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.

ARBICO Organics is proud to offer a large selection of Beneficial Nematodes to suit any grower's needs.

See pages 15-17 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.

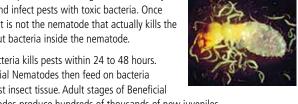
#### **How Do Beneficial Nematodes Work?**

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.



# **NemAttack Beads Encapsulated Beneficial Nematodes**









= NemAttack Steinernema carpocapsae (Sc)

SINGLE SPECIES				
SKU	Size	Price		
NemAttack Beads Steinernema feltiae				
5001005	≈5 million	\$36.00		
5001010	≈10 million	\$42.95		
5001020	≈20 million	\$57.20		
5001040	≈40 million	\$86.00		
NemAttack Beads Steinernema carpocapsae				
5002005	≈5 million	\$36.00		
5002010	≈10 million	\$42.95		
5002020	≈20 million	\$57.20		
5002040	≈40 million	\$86.00		

Application rates vary based on pest, infestation levels and environment. See online for coverage recommendations, or call 800-827-2847.

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.

### **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

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.

# NemaSeek<sup>™</sup> *Heterorhabditis bacteriophora* (Hb) Beneficial Nematodes

NemaSeek *H. bacteriophora* actively seek 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 *H. indica* 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<sup>™</sup> Steinernema feltiae (Sf) Beneficial Nematodes

NemAttack *S. feltiae* nematodes are known to wait for passing pests, such as cabbage maggot, humpbacked flies, onion maggots, pill worm, raspberry crown borer, root maggots, sciarids, shore flies, thrips and more!



# NemAttack<sup>™</sup> *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™ S*teinernema carpocapsae* (Sc) Beneficial Nematodes

These nematodes are known to wait for passing pests. NemAttack *S. carpocapsae* 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 Beetle	<b>A</b>	Greater Wax Moth	*	Root Weevils	<b>A</b> •
Armyworm • *	Corn Earworm	<b>●■</b> *	Grubs	<b>A</b> •	Scarabs	
Artichoke Plume Moth	Corn Rootworm		Humpbacked Flies		Sciarids	
Asparagus Beetle	Cotton Bollworm		Indian Meal Moth	*	Shore Flies	
Bagworm	Cranberry Girdler		Iris Borer		Small Hive Beetle	* -
Banana Moth	Cranberry Root Weevil		Japanese Beetle	<b>*</b>	Sod Webworm	
Banana Weevil	Crane Flies		Large Pine Weevil		Strawberry Root Weevil	<b>●■</b> *
Beet Armyworm	Cucumber Beetle		Leafminers		Sugarcane Stalk Borer	
Berry Root Weevil	Cutworm		May/June Beetles	<b>*</b>	Sweet Potato Weevil	
Billbug	Diaprepes Root Weevils	*	Mint Flea Beetle		Termites (Subterranean)	<b>*</b>
Black Cutworm	Fall Armyworm		Mint Root Borer		Thrips	
Black Vine Weevil 🛑 🔺 🌟 🔷	Flea Beetle		Mole Crickets	•*	Ticks	
Bluegrass Weevil	Flea (Larvae, Pupae)		Navel Orangeworm		Tobacco Budworm	
Cabbage Maggot	Flea (Adult)		Onion Maggot		Tobacco Cutworm	
Carrot Weevils	Fly Larvae		Pink Bollworm	*	Vine Borers	
Caterpillars	Fruit Flies		Plum Curculio	*	Webworm	
Chafer (European, masked) 🛕 🌟	Fungus Gnats		Raspberry Crown Borer		Western Flower Thrips	
Citrus Root Weevil	Gall Midges		Red Flower Beetle	*	Wireworm	
Codling Moth	Grape Root Borers	<b>A</b>	Root Maggots		Wood Borers	



#### **Beneficial Nematodes**



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

*	$= NemAttack^{\scriptscriptstyleTM}$	Steinernema	riohrave (	Sr)
-	- NCIIIAttack	JULITURITIE	HODIAVE (	J1/

- = NemaSeek™ *Heterorhabditis indica* (Hi)

CINICI E CRECIEC					
SINGLE SPECIES					
SKU	Size	Price			
NemaSee	k Heterorhabditis ba	acteriophora			
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			
NemAttac	ck Steinernema feltid	ae			
1220309	≈5 million	\$36.00			
1220310	≈10 million	\$42.95			
1220311	≈50 million	\$72.00			
1221701	≈250 million	\$198.00			
1221704	≈500 million	\$270.00			
NemAttack Steinernema carpocapsae					
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			
NemAttac	k <i>Steinernema riobi</i>	rave			
1220410	≈5 million	\$36.00			
NemaSee	k Steinernema kraus	ssei			
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		
▲ Ner	naSeek Hb & NemAttac	k Sc		
1220331	≈10 mil. per species	\$60.00		
1220332	≈50 mil. per species	\$125.00		
1221699	≈250 mil. per species	\$340.00		
1220335	≈500 mil. per species	\$500.00		
▲ ■ Ne	maSeek Hb & NemAtta	ck 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		
NemAttack Sf & NemAttack Sc				
1220340	≈10 mil. per species	\$60.00		
1220341	≈50 mil. per species	\$125.00		
1220342	≈250 mil. per species	\$340.00		
1220343	≈500 mil. per species	\$500.00		

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

#### **SIZE & COVERAGE CHART**

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

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



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

# **OMRI Listed Beneficial Nematodes**





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

	OMRI LISTED SINGLE SPECIES					
	SKU	Size	Price			
	NemAttack Pro Sc Beneficial Nematodes					
1	4005010	≈10 million	\$52.00			
1	4005050	≈50 million	\$90.00			
1	4005250	≈250 million	\$250.00			
	4005500	≈500 million	\$325.00			
	TRIPLE COMBO					

SKU	Size	Price
Nem	aSeek Pro Hb Beneficial Attack Pro Sf Beneficial Attack 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.

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

# Enoz® BioCare® Gnat Stix

A Low-Tech But Supremely Effective Method For **Fungus Gnat Control.** 

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

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

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

1280501	Gnat Stix - 12 Per Pack	\$5.99
1280502	Gnat Stix - 12 Per Pack - Bundle of 2	\$11.38
1280503	Gnat Stix - 12 Per Pack - Bundle of 4	\$21.56



# **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 10-25 square feet.
- For monitoring, use roughly 4-6 traps per acre.

1254501	ARBICO Organics Yellow Insect Traps - 5 Pack	\$4.99
1254502	ARBICO Organics Yellow Insect Traps - 10 Pack	\$8.90
1254503	ARBICO Organics Yellow Insect Traps - 25 Pack	\$19.75
1254504	ARBICO Organics Yellow Insect Traps - 50 Pack	\$37.50
1254510	ARBICO Organics Yellow Insect Traps - 100 Pack	\$70.00

# **Pest Wizard Blue-Yellow Card Trap**

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

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

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

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

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

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

1254201	Blue & Yellow Card Trap - 4 Pack	\$9.99
1254202	Blue & Yellow Card Trap - 10 Pack	\$17.99



**Gnat Stix** 

# Yellow Stiky™ Tape

Longer Length Tape To Cover Even More Area.

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

**DESCRIPTION:** When you have an insect population in a large area that you need to monitor and trap, this sticky tape is the choice for you. It will



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

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

1259610	Yellow Stiky Tape - 2" wide x 530' long	\$50.00
1259611	Yellow Stiky Tape - 6" wide x 530' long	\$100.00
1259612	Yellow Stiky Tape - 10" wide x 530' long	\$150.00
1259613	Yellow Stiky Tape - 12" wide x 530' long	\$200.00

<sup>\*</sup>Larger quantities available.

# Blue & Yellow Sticky Ribbon Rolls

Blue Is For Thrips & Leafminers, Yellow Is For Aphids & Whiteflies.

**TARGET:** Western Flower Thrips, Bean Thrips, Spinach Leafminers, California Laurel Aphid, Greenhouse Whitefly, Mexican Bean Beetle and more.

**DESCRIPTION:** These sticky ribbon rolls are an effective way to trap and monitor insects in large growing areas. Install around the perimeter of your garden or greenhouse and, since they are double-sided, they will trap insects coming and going. They can also be

placed along the ground to catch crawling insects. Blue attracts thrips and leafminers and yellow attracts aphids, whiteflies and other soft-bodied insects. Pheromone lures or essential oils can be added to increase catch potential.

**SUGGESTED USE:** For best results, install the trap at the time of planting as a preventative treatment. Rolls can remain in place until the trapping surface is fully covered with insects or debris. It can be wrapped around fence posts or stakes that are driven into the ground, or it can be attached to greenhouse posts with staples or string.

1254420	Blue Sticky Ribbon Roll - 6" W x 328' L	\$60.00
1253220	Yellow Sticky Ribbon Roll - 6" W x 328' L	\$60.00
1254422	Sticky Ribbon Roll Bundle - 6" W x 328' L (1 of ea.)	\$115.00



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 mon-



itoring, 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 10-25 square feet.
- For monitoring, use roughly 4-6 traps per acre.

1254551	ARBICO Organics Blue Insect Traps - 5 Pack	\$4.99
1254552	ARBICO Organics Blue Insect Traps - 10 Pack	\$8.90
1254553	ARBICO Organics Blue Insect Traps - 25 Pack	\$19.75
1254554	ARBICO Organics Blue Insect Traps - 50 Pack	\$37.50
1254560	ARBICO Organics Blue Insect Traps - 100 Pack	\$70.00

# Olson Garden Guard Yellow Stiky™ Ribbon

This Ribbon Is Just Right For Encompassing Small Gardens.

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

**DESCRIPTION:** Made for trapping and monitoring, Olson Garden Guard provides another weapon in the sticky trap war on insect pests. Pre-coated



with Stiky Stuff adhesive, this narrow (2" wide) and long (100 ft.) roll is ideal as a perimeter barrier; use two levels of ribbon to form a formidable fence of stickiness. Comes packaged in a heavy duty plastic flange for easy dispensing.

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

**1259605** Garden Guard Yellow Stiky Ribbon - 2" x 100 ft. **\$12.50** 

#### **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 15-17 for more information.

### **JAPANESE BEETLE CONTROL**

# **Milky Spore Powder**

Specific, Long Lasting Larval Control.

TARGET: Japanese beetle grubs.

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



In warmer climates, control can occur in 1-3 years (after one application) and in cooler climates, 3-5 years. Can apply with other fertilizers, will not harm animals and can be applied to food crops. For best results, apply with NemaSeek Hb Beneficial Nematodes (see pages 16-17), 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 online). 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  $\approx$ 2,500 sq. ft., 40 oz. covers  $\approx$ 1/4 acre, 50 lbs. covers  $\approx$ 4.5 acres.

1216001	Milky Spore Powder - 10 oz Covers ≈2,500 sq. ft.	\$32.99
1216040	Milky Spore Powder - 40 oz Covers ≈1/4 acre	\$85.99
1216045	Milky Spore Powder - 25 lb. Drum - Covers ≈2.25 acres	\$879.00
1216052	All-Purpose Dispenser Tube	\$14.50

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

If you are unsure if Japanese Beetles have invaded your county, please contact your County Extension Agent to find out.



#### **GRUB CONTROL**

## **BioCeres® WP**

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

1332890 BioCeres WP - 1 lb. Bag \$90.00 See page 32 for more information.

#### **AzaGuard®**

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

**1222204** AzaGuard - 32 oz. **\$275.00** See page 34 for more information.

#### **BotaniGard® MAXX**

Beauveria bassiana & Pyrethrins Make A Powerful Team!

1341030 BotaniGard Maxx - Quart \$115.00 See page 34 for more information.

#### **BEETLE CONTROL**

# **BONIDE® Captain Jack's™ Neem Max**

Powerful Cold Pressed Neem Oil In A 4-in-1 Formulation.

**1246610** Captain Jack's Neem Max - 8 oz. Conc. **\$14.99** 

See page 31 for more information.

# **PyGanic® Gardening**

Rapid Knockdown & Kill For Outdoor Pests In Your Garden.

1288710 PyGanic Gardening - 8 oz. \$25.20 See page 34 for more information.

#### Molt-X®

An excellent spray with multiple modes of insecticidal action.

**1332771** Molt-X - Quart **\$215.00** 

See online for more information.

#### **BT NOW**®



An Extremely Effective Biopesticide That Controls Crop-Damaging Caterpillars.

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

**DESCRIPTION:** Uses a strain of *Bacillus* thuringiensis kurstaki to provide broad spectrum control for a long list of *Lepidopteran* 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. Will not harm pollinators or beneficials. 4-hour REI. Compatible with many commonly used fertilizers, pesticides and adjuvants. OMRI listed.

**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 quidelines.

1201220	BT NOW - Gallon Concentrate	\$79.99
1201222	BT NOW - 2.5 Gallon Concentrate	\$170.00

Cannot be shipped to the following states: DC

# NEW

#### **V9 Tree Belt®**

Stops Caterpillars Before They Can Reach A Tree's Foliage.

**TARGET:** Spongy Moth (formerly Gypsy Moth) caterpillars, climbing cutworms, elm leaf beetles, earwigs, tent caterpillars, winter moths and other climbing insects.



**DESCRIPTION:** This is a barrier control for Spongy Moth (formerly Gypsy Moth) caterpillars and other climbing pests. As they advance up a tree trunk, the insects will come into contact with the belt and receive a non-lethal shock that will repel them and make them fall to the ground. They can then be disposed of by dropping them in a soapy water. Belt size: 1¾ " x 6 ft. long. Requires a 9-volt battery—NOT included.

**SUGGESTED USE:** Install at least 2' above the ground before the branching of the tree. Fix one end using the provided screws. Wrap belt around the tree; don't overlap but avoid any gaps in the circle. Keep the end point as close to the belt as possible. Secure end with screws provided. Excessive rain or snow can affect the conductors, so try to keep the area dry. Do not twist or pull the fence force fully as it may damage the conductors and connections.

**1272035** V9 Tree Belt **\$19.99** 

#### DiPel® Pro DF & DiPel® DF



OMRI Listed & WSDA Approved *Bacillus thuringiensis v kurstaki (Btk)* To Control Most *Lepidopteran* insects.

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

**DESCRIPTION:** This dust-free, flowable powder bioinsecticide works quickly; pests will stop feeding within the hour and die in a few hours to 3 days. Use the smaller-sized DiPel PRO DF for or-

namentals and small edibles. The larger-sized DiPel DF is meant for agriculture production. People,

beneficials, birds, fish and wildlife are not affected by DiPel.

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

1207005	DiPel Pro DF - 1 lb.	\$24.75
1207006	DiPel DF - 1 lb.	\$24.75
1207004	DiPel DF - 5 lbs.	\$119.50

# **Monterey B.t.**



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

**TARGET:** Cabbage looper, imported cabbage worm, tomato hornworm and bagworm, spring cankerworm, fall cankerworm, spongy 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. 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.

1201213	Monterey B.t 32 oz. RTU	\$14.49
1201214	Monterey B.t 32 oz. Hose-End RTS	\$24.49
1201210	Monterey B.t. Concentrate - Pint	\$14.99
1201211	Monterey B.t. Concentrate - Quart	\$22.99
1201212	Monterey B.t. Concentrate - Gallon	\$79.99

Cannot be shipped to the following states: SKU 1201213(RTU): AR, ND, WY

For moth egg control see page 13.

#### **BIOLOGICAL CONTROL**

# **Mosquito Bits®**

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

TARGET: Mosquito and fungus gnat larvae.

**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. (1/2 lb. per 2,178 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
1211130	Mosquito Bits - 20 lbs.	\$119.00
1211139	Mosquito Bits & Dunks Combo Kit	\$19.92

# Mosquito Dunks<sup>®</sup> and Chunks<sup>®</sup>



Kills Mosquitoes In Their Larval Stage Without Using Poison

TARGET: Mosquitoe larvae.

**DESCRIPTION:** These popular products are designed to be placed in standing water, where they will slowly release the beneficial bacteria *Bacillus* thurengiensis israelensis (Bti). Mosquito





larvae growing in the water will feed on the Bti and die within 24 hours of ingestion. Can alternate between wet and dry without losing efficacy. Species-specific control that will not harm people, pets, fish or plants. Effective for up to 30 days. Dunks can be anchored with a string to keep them in a specific place, while the smaller-sized Chunks are designed to be tossed into the water.

**SUGGESTED USE:** Use in any containerized standing water, except finished, treated drinking water for humans. Can be added to animal drinking water. **Dunks:** Use 1 Dunk per 100 sq ft. **Chunks:** Use 4 Chunks per 100 sq ft. Allow a minimum of 48 hours for control. Can also be used as a pre-treatment in areas prone to flooding.

1211101	Mosquito Dunks - 6 Pack	\$13.95
1211103	Mosquito Dunks - 20 Pack	\$22.95
1211105	Mosquito Dunks Chunks - 5 Pack	\$4.79

# AQUABAC® 200G Granular Bti Mosquito Control





Use This Bti Larvicide Wherever You Have Mosquitoes Breeding

**TARGET:** Larval stages of mosquitoes, fungus gnats 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\***\*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. Call for pallet pricing.

## **Mosquito Barrier®**

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

TARGET: Mosquitoes, gnats and fleas.

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



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

 1211001
 Mosquito Barrier - Quart
 \$22.50

 1211002
 Mosquito Barrier - Gallon
 \$79.90

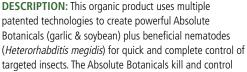
This product cannot be shipped to the following states: ID, KS, WY

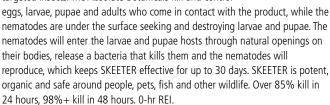


# **SKEETER Mosquito Control**

Powerful Mosquito Control That Combines Botanicals With Beneficial Nematodes.

**TARGET:** Over twenty species of mosquito and midge eggs, larvae, pupae and adults who come in contact with the product. SKEETER is for water application to control mosquitoes and midge where they breed.





**SUGGESTED USE:** For water application including the edges around the water. Mix SKEETER with water in a hand pump or backpack sprayer or other application device to spray the mixture across the water's surface. Spray as much of the surface as possible, SKEETER will continue to spread across creating a surface tension to kill and control mosquitoes and midge. Up to 6oz per gal water for coverage up to 4,000sqft. Higher rates can be used for quicker control and water with high levels of organic matter. May also be used at the dilution rate of 1:500 of product to water as a mixed solution.

**1211402** SKEETER - 32 oz. **\$50.00** 

Cannot be shipped to the following states: CT, IN, ME, MT, OR, RI, WI

# For Personal Mosquito Repellents See Page 45.

# SNS 203™ Soil Drench/Foliar Spray



First-Rate Control For Soil-Dwelling Pests That Feed On Roots & Stalks.

**TARGET:** Kills and repels fungus gnats, root aphids, thrips, shore flies and whiteflies.

**DESCRIPTION:** Made of rosemary and clove botanical extracts that cause dehydration and death and will also attack fungus and algae. All botanical extracts are food-grade materials, highly water soluble & completely biodegradable. Created as a root drench, but equally effective as a foliar spray and in hydroponics. For use on a wide range of plants, fruits, and vegetables. O-hr REI.



**SUGGESTED USE:** Soil drench: 1 gal mixed solution to 10 gal potted plants or 230 sq. ft. Mix 4-8 Tbsp or 2-4 oz\*/1 gal water. Foliar Spray: I gal of mixed solution will cover approx. 550 sq. ft. Mix 4-12 Tbsp or 2-6 oz\*/1 gal water. Spray to point of runoff and reapply 2-5 times every 2-3 days.\* Pouch: Mix contents with 32 oz of water and drench or spray area thoroughly. Hydroponic instructions available on label. \*Depending on severity of infestation.

1459135	SNS 203 Soil Drench/Foliar Conc Makes 32 oz.	\$7.99
1459130	SNS 203 Soil Drench/Foliar - 16 oz. Conc.	\$24.00
1459131	SNS 203 Soil Drench/Foliar - Gallon Conc.	\$110.00
1459132	SNS 203 Soil Drench/Foliar - 5 Gallons Conc.	\$380.00

Cannot be shipped to the following states: AL, AK, AR, CT, DC, DE, GA, IN, IA, KS, LA, MS, NH, NM, ND, SD, UT, WV, WY

#### **MOSQUITO TRAPS**





# Enoz® Trap-N-Kill® A-G-O Mosquito Trap

Designed To Work All Season Long - Year After Year.

 1280770
 Mosquito Trap - 2 Pack
 \$59.99

 1280772
 Refill Sticky Boards - 2 Pack
 \$11.99

# Skeet-O-Trap™

A Reusable Mosquito Trap That Uses No Electricity, Smoke, Chemicals, Or Sprays.

**1280760** Skeet-O-Trap **\$11.29** 



#### WHAT ARE FLY ELIMINATORS?

#### The Sensible Alternative To Pesticides

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

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



Adult Fly Eliminator emerging from fly pupa.

# 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 LotsRace 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.















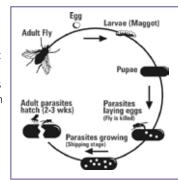




#### **HOW DO FLY ELIMINATORS WORK?**

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

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



Life cycle of the fly parasite.

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

#### Philadelphia Park Recommends ARBICO's Fly Eliminators

"I was introduced to Fly Eliminators 30 years ago at a Racetrack Symposium and have been using them ever since. They've done a fabulous job and I have recommended Fly Eliminators



to many people! They're a great product! Their Fly Eliminators Program was green before green was popular. Without a doubt, this is the way to qo. ARBICO Organics is a very good company!"

- Roy Smith, Former Track Manager of Philadelphia Park

#### **HOW DO I USE FLY ELIMINATORS?**

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

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



Fly Eliminators and wood shavings in packaging.



# Use Your Fly Eliminators the RIGHT Way:

#### **RIGHT Time**

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

#### **RIGHT Place**

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

#### **RIGHT Amount**

The more Fly Eliminators, the fewer the flies

#### **RIGHT Schedule**

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

#### **Churchill Downs Chooses ARBICO Organics**

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



CHURCHILL DOWNS

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

- Butch Lehr, Former Track Manager of Churchill Downs

#### Del Mar Thoroughbred Club Relies On ARBICO Organics

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



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

- Joe Harper, Chief Executive Officer of Del Mar

#### **VALUE PRICING**

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

# Only \$21.95

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

Number of Horses/ Animals	Suggested Units†	Price Per Shipment
1	1/4 Unit	\$18.95
2 - 5	1/2 Unit	\$21.95
6 - 10	1 Unit	\$32.95
11 - 15	1 1/2 Units	\$43.95
16 - 20	2 Units	\$57.95
21 - 25	2 1/2 Units	\$71.95
26 - 30	3 Units	\$83.95
31 - 35	3 1/2 Units	\$95.95
36 - 40	4 Units	\$106.95
41 - 45	4 1/2 Units	\$118.95
46 - 50	5 Units	\$121.95
51 +	Please Call 1-800-827-2847	

**Order Your Fly Control Program Today!** 

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.

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. © 2023 Arizona Biological Control, Inc.

#### **MAGGOT CONTROL**

### Sc Beneficial Nematodes



Add Beneficial Nematodes For Ultimate Fly Control!

TARGET: Fly maggots and other subterranean pests.

**DESCRIPTION:** These live microscopic organisms (non-segmented round worms) occur naturally in soil throughout the world and are parasitic to fly maggots and other subterranean



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

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

1220319	NemAttack Sc Beneficial Nematodes - ≈5 million	\$36.00
1220320	NemAttack Sc Beneficial Nematodes - ≈10 million	\$42.95
1220321	NemAttack Sc Beneficial Nematodes - $\approx$ 50 million	\$72.00

<sup>\*</sup>See page 17 for free shipping details.

# **balEnce™ Fly Spray**

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

TARGET: Larval and adult flies.

**DESCRIPTION:** This EPA approved biological insecticide is suitable for organic programs. Consists of a liquid suspension of beneficial entomopathogenic fungi known as *Beauveria bassiana*.. The fungus acts as a parasite on flies, causing white muscardine disease. When the microscopic spores of the fungus come in contact with the body of an adult or larval stage of a



fly, they germinate, penetrate the cuticle and grow inside, killing the fly within a matter of days. Soon after, a white mold emerges from the cadaver and produces new spores that continue to infect more flies. After application, adult flies and fly larvae die in 24 to 72 hours. Product will continue to remain viable on residual surface areas for up to about 21 days.

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

**1272100** balEnce Fly Spray - 15 oz. Bottle **\$145.00** 

# **ADULT FLY TRAPS & REPELLENTS**

# **BugPellent® Cylinder**



All The Fly Control For Little Expense & None Of The Chemicals.

**TARGET:** Black flies, deer flies, gnats, horse flies, house flies, mosquitoes, stable flies and ticks.

**DESCRIPTION:** This ingenious insect repellent uses the vapors of 9 essential oils to create a repellent barrier that will keep a broad range of insects away from your animals. Simply hang where it's most needed and the pleasant-smelling oil vapors will accumulate under the ceiling and float down to protect the animals. Lasts 4-8 weeks, depending on temperature and airflow; refills available.



**SUGGESTED USE:** Do not combine with insect attractant products. Use in barns, stalls, garages or any enclosed or semi-enclosed structure where the vapors can accumulate. Don't use with fans, the strong airflow they create will prevent the necessary vapor build-up. Use a minimum of 2 cylinders per structure or use 1 cylinder for approximately every 4,000 cu. ft. of indoor space, or 1 cylinder for every 1½ stalls. Hang between 7-12' high at least 6' from a door and 3' from a window. Allow for adequate airflow around the cylinder. Can be placed in entryways at least 6' inside building.

1256040	BugPellent Cylinder	\$18.95
1256041	Refills - 2 Pack	\$20.00

# Captivator® & Fly Terminator® Pro Fly Traps

These Budget Friendly Fly Traps Can Give You Months of Fly Control.

TARGET: Filth-breeding flies.

DESCRIPTION: These lightweight, yet heavy-duty, reusable traps can stand up to the elements and trap tens of thousands of flies in a season. Take care to choose a location that is away from where you and your animals want to be as this trap is very smelly and will quickly attract the flies. The Captivator is a 2-qt size, while the Fly Termi-



nator Pro is a gallon size. The Captivator comes with one 30 gm. water-soluble attractant pouch and the Fly Terminator Pro comes with two. Attractant refills available.

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

1256051	Captivator Fly Trap	\$13.99
1256052	Terminator Pro Fly Trap	\$29.99
1256053	Starbar Fly Trap Attractant Refill - 8 ct.	\$13.49

# **Epps Biting Fly Trap®**

Kill Pounds Of Flies Every **Day Without Smelly Baits** or Chemicals.

TARGET: Biting flies, including horse flies, deer flies, bull flies, green heads, yellow heads, black flies and stable flies.

**DESCRIPTION:** Flies are instinctively drawn to any large objects that contrasts with the environment



around them (a dark object on a lighter background). They will then circle the target before landing on it. This trap has a large, solid surface surrounded by transparent areas (clear plastic deflectors) that create an object of interest to the fly. As flies approach the trap and try to fly around it, they will hit the deflectors and bounce down into the water in the trays below. For best results, add dish soap to the water. This trap does not work on houses, barns or face flies. One trap will cover 20 acres and can reduce flies by up to 80%.

SUGGESTED USE: Can be used year after year. When assembled, the trap measures 5' tall, 7' long and 18" wide. Four 7-ft T-posts are required but not included. Secure firmly to the ground and do not place it in an area where animals can get to it. Detailed and illustrated assembly instructions included.

1256011 Epps Biting Fly Trap \$425.00

# **Biting Fly Trap**

No Poisons! No Baits! No Electricity!

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

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



to 5,000 flies! Each package contains the following: 1 fiberglass cylinder, 1 wooden stake, 2 brass fasteners, 2 giant paper clips, 1 sticky sleeve, 1 replacement sleeve (additional sleeves can be purchased as needed) and complete instructions.

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

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



# ARBICO Organics® Solar Fly Trap



Heavy Duty, Reuseable, Portable & Lightweight Fly Trap!

TARGET: Adult flies.

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

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

1256001	ARBICO Organics Solar Fly Trap - Includes 1 Bait	\$90.00
1256005	ARBICO Organics Solar Fly Trap - Includes 4 Baits	\$108.00
1256002	Replacement Fly Bait	\$9.99
1259990	ARBICO Organics Solar Fly Trap - 2 Pack	\$174.00
1259991	ARBICO Organics Solar Fly Trap - 3 Pack	\$255.00
1259992	ARBICO Organics Solar Fly Trap - 4 Pack	\$332.00
Replacement pa	arts available online.	

\*FREE SHIPPING via ground or US Mail ONLY.

# Harris® Super-Sized Fly **Sticky Traps**



Use Indoors Or Out - Wherever You Need A Little Extra Fly Control.

TARGET: Aphids, flies, fruit flies, gnats and more.

**DESCRIPTION:** With 6" x 8" of super-sticky trapping surface on both sides, this pesticide-free trap can be used inside or outside. In addition to flies, this larger-than-average trap will also snare many common plant pests. Comes with a twist tie for hanging.

**SUGGESTED USE:** Avoid placing trap in areas where children, pets and non-target species of wild birds

or animals may come into contact with the trap. Remove the protective film and hang. This trap is meant to hang freely-do not stick onto surfaces. Inspect monthly and discard when full of insects or debris.

1254259 Super-Sized Fly Sticky Traps - 20 Pack

\$12.99

### **Equiderma Horse Spray**

This Powerful Spray Has A Light Citrusy Scent.

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

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



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

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

1107500	Equiderma Horse Spray - 32 oz. RTU	\$28.49
1107501	Equiderma Horse Spray - Gallon RTU	\$99.99

## **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.

1107550	Ecovet Fly Repellent - 4 oz. Bottle	\$7.95
1107551	Ecovet Fly Repellent - 18 oz. Bottle	\$29.95
1107552	Ecovet Fly Repellent - Gallon Refill	\$149.95

# Dr. Earth® Final Stop® Pet Spray

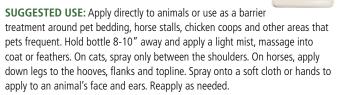




Protect Your Furry Friends With This Safe & Effective Oil-Based Spray.

**TARGET:** Fleas, flies, gnats, mites, mosquitoes, ticks and other biting insects on dogs, cats, horses and chickens.

**DESCRIPTION:** This OMRI-listed organic spray uses botanical oils to create a highly effective, all-natural, long-lasting pet spray. It can be used indoors and out and works as a deterrent as well as a barrier insecticide. Keeps bugs off your pets and leaves their fur smooth and dry. Biodegradable and contains no synthetic ingredients, pyrethrin, alcohol or DEET.



**1107570** Dr. Earth Final Stop Pet Spray - 24 oz. RTU **\$12.99** 

# **Horse Fly TweetMint**



Keeps Biting Insects Away & Leaves Everything Smelling Minty-Fresh.

**TARGET**: Horse flies, deer flies, ticks, mosquitoes and more.

**DESCRIPTION:** This is a non-toxic spray for use on horses that is designed to repel and eliminate bloodsucking insects. Made of ingredients that are either natural, plant-based or naturally occurring, you can apply this liberally to your animal without worry. In fact, this spray is formulated for use as a shampoo as well. It provides strong repellent power, but it will



also leave your animals, and the whole area, smelling great. Helps to remove bot eggs. Highly concentrated. Hypoallergenic, biodegradable and non-toxic.

**SUGGESTED USE: Repellent:** Dilute 2-4 oz. in a 32 oz. spray bottle of water. Spray liberally over the entire body. When applying to the head/face and ears, spray onto a clean mitt or cloth and apply gently. Be careful to avoid getting solution in eyes. Can be sprayed onto droppings, in/around barns, paddocks or stable areas. **Shampoo:** Use concentrate and shampoo animal as usual. Reapply each time the animal is washed, exposed to heavy rain, or sweating.

1202640	Horse Fly TweetMint - 16 oz.	\$35.00
1202641	Horse Fly TweetMint - 32 oz.	\$50.00
1202642	Horse Fly TweetMint - 64 oz.	\$87.50
1202643	Horse Fly TweetMint - Gallon	\$150.00

#### **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 - Gallon	\$38.50
1274108	Organic JMS Stylet-Oil - 2.5 Gallons	\$60.00

\*Call for freight quote. Larger sizes available.

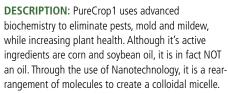
Cannot be shipped to the following states: DC, IN, KS, KY, LA, MS, MT, PR, SD, TN, UT, WY

# 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).





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

1274200	PureCrop1 - 16 oz.	\$38.00
1274201	PureCrop1 - 1/2 Gallon	\$82.50
1274202	PureCrop1 - Gallon	\$165.00
1274203	PureCrop1 - 2.5 Gallons	\$412.50

Larger sizes available.

# 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 cup/gal water. For severe infestations: 1/2 cup/gal water every 3rd day. Powdery Mildew/weak solution: .5 oz/31.5 oz water. Soft bodied insects/medium solution: 1-1.5 oz/31 oz water. Infestations/strong solution: 2-2.5 oz/30 oz water. Preventative: seeds/transplants: .5-1 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	\$14.65
1459201	The Amazing Dr. Zymes Eliminator - Quart Conc.	\$34.75
1459202	The Amazing Dr. Zymes Eliminator - Gallon Conc.	\$125.95

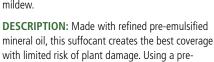
Larger sizes available.

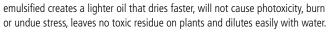
Cannot be shipped to the following states: CT, DC, ID, IN, KS, LA, ME, MS, NE, NJ, NM, ND, PR, SD

#### **SuffOil-X®**



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





**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	\$87.00
1332806	SuffOil-X - Case of 2 ct./2.5 Gals.	\$156.00

Larger sizes available.

 $\textbf{Shipping Restrictions:} \ \mathsf{Cannot} \ \mathsf{ship} \ \mathsf{via} \ \mathsf{US} \ \mathsf{Mail} \ \mathsf{or} \ \mathsf{air} \ \mathsf{shipping} \ \mathsf{methods}.$ 

Cannot be shipped to the following states:  $\ensuremath{\mathsf{AK}},\ensuremath{\mathsf{DC}}$ 



# Organocide® Bee Safe 3-in-1 Garden Spray



This Multi-Purpose OMRI-Listed Garden Spray Will Not Harm Bees, Ladybugs Or Butterflies.

**TARGET:** Soft-bodied insects, spiders and other mites, scale, powdery mildew, downy mildew, spot diseases and more.

**DESCRIPTION:** This organic spray uses a specific blend of potassium sorbate, sesame oil, lecithin and edible fish oil to work as an insecticide, miticide and fungicide. It contains no petroleum solvents and is an ideal alternative to many

chemical-based pesticides and sprays. Organocide is effective against soft-bodied insects, spider mites and scale insects, but it also controls many common fungal diseases, like powdery mildew, downy mildew and spot diseases. Can be used on most crops grown indoors and outdoors, but do not use the concentrate indoors. 0-hr REI & 0-day.

**SUGGESTED USE:** Spray to run-off, making sure tops & bottoms are covered. Spray early morning or late evening and allow 3-4 hrs. for product to dry. Do not apply when temps are over 95°F. For control: 1 application. For maintenance: Once a month. Severe problems: 2 applications 3 days apart. Concentrate: Dilute 3 oz/gal water or 1 oz/gal water for severely stressed or damaged plants. Diluted solution can be used for up to 30 days. Use a sprayer that puts out a fine spray.

1150050	Organocide 3-in-1 Garden Spray - 24 oz. RTU	\$12.21
1150055	Organocide 3-in-1 Garden Spray - 16 oz. Conc.	\$16.48
1150056	Organocide 3-in-1 Garden Spray - 32 oz. Conc.	\$23.78
1150058	Organocide 3-in-1 Garden Spray - Hose-End 32 oz.	\$31.87
1150059	Organocide 3-in-1 Garden Spray - Gallon Conc.	\$86.19

Cannot be shipped to the following states: CT, IA, NM

# Grower's Ally® Crop Defender 3

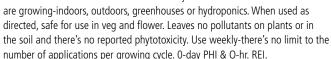




OMRI Listed. 4 Botanical Oils Plus A Surfactant Make A Killer Combo.

**TARGET:** Aphids, russet mites, spider mites, thrips and other soft-bodied insects. Also kills powdery mildew.

**DESCRIPTION:** This organic product is a synegistic blend of botanical oils and a surfactant that works as an insecticide, fungicide and miticide. It is suitable for use wherever you



**SUGGESTED USE:** Thoroughly spray the leaves and stems of the plant until there is runoff. Outdoor applications: Spray early morning or evening to avoid the hottest part of the day. Don't spray at temps over 90°F. Indoor applications: Keep lights and fans off for 2–3 hours after spraying. Preventative: Mix at 0.25% or 10 mL/gal water. Repeat weekly. Curative: Mix qt 1.0% or 40 mL/gal water. Repeat every 3-5 days or as needed. RTU: Wait at least 3 days before reapplying.

1459315	Grower's Ally Crop Defender 3 – 24 oz. RTU	\$12.99
1459201	Grower's Ally Crop Defender 3 – 8 oz. Conc	\$49.99
1459202	Grower's Ally Crop Defender 3 – 32 oz. Conc	\$139.99

#### .

#### Essentria® IC Pro

Handles Most Crawling & Flying Insects Most Anywhere You Find Them.

**TARGET:** Ants, aphids, American cockroach nymphs, beetles, box elder bugs, crickets, earwigs, face flies, German cockroaches, Indian meal moths, millipedes, mosquitoes, spiders, spiders mites, stink bugs and more.

**DESCRIPTION:** Derived from botanical oils, this earth-friendly product will repel and kill a wide variety of insects in all sorts of locations. Formulated for maintenance control as well as active infestations. This water-based formula is made



from food-grade inerts, has a light fragrance and is safe for use in food prep areas. For cannabis, hemp and unspecified food crop use. Safe around livestock. FIFRA 25(b) exempt.

**SUGGESTED USE:** Labeled for broadcast, barrier, perimeter, spot treatments and spatial repellent (mosquitoes). General application rate: 1-8 fl oz/gal water lower rate for maintenance and higher rate for active infestations) and apply at the rate of 2 gals/1,000 sq ft. Do not apply directly to houseplants. Avoid or cover any pools or aquaria prior to spraying.

1273058	Essentria IC Pro – Quart	\$40.99
1273059	Essentria IC Pro – Gallon	\$129.99

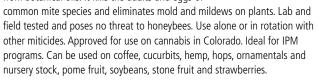
#### **MiteXstream**



A Quick & Easy Plant-Based Solution For Mites, Molds & Mildews.

**TARGET:** Spider mites, two-spotted mites, pacific mites, Willamette mites, citrus rust mites, broad mites, European red mites and downy mildew, powdery mildew and gray mold

**DESCRIPTION:** This exceptional biochemical product uses food-grade ingredients derived from botanical oils. It kills the adults and eggs of



**SUGGESTED USE:** For best results, use on low to moderate infestations or when conditions favor mite outbreaks and mold/mildew development. Do not apply with surfactants or through any irrigation system. Effective above freezing (32°F, 0°C) and on low to moderate infestations. Dilute 1 fl oz/gal water. Spray volume rate is 0.5-2 gal conc/acre at proper dilution rate. Stir/agitate thoroughly.

1458180	MiteXstream — 8 oz	\$19.00
1458181	MiteXstream – Gallon	\$120.00
1458182	MiteXstream – 5 Gallon jug	\$384.75

Cannot be shipped to the following states: CA,FL

#### **NEEM OIL**

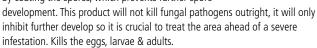
# BONIDE® Captain Jack's™ Neem Max



Powerful Cold Pressed Neem Oil In A 4-in-1 Formulation.

**TARGET:** Aphids, grasshoppers, beetles, leafhoppers, thrips, borers, leafminers, caterpillars, mealybugs, weevils, flies, gnat, psyllids, wireworms, whiteflies, soil fungal diseases and much more.

**DESCRIPTION:** Made with 70% cold pressed neem oil, this product works as a repellent, a suffocant, an anti-feedant, an insect growth regulator by disrupting the growth/molting process and as a poison if ingested. As a fungicide this product will inhibit mycelial growth by coating the spores, which prevents further spore development. This product will not kill fungal pathogens.



**SUGGESTED USE:** Can be applied as a foliar spray or soil drench. Insect & mite control: Apply at 0.625-1.8% in a 7-10 day interval. Disease control: Use 1.2-1.8% with a 10-14 day interval. Soil use/nematode control: Use at 1.2-2.4% with a 10-14 day interval.

1246610	Captain Jack's Neem Max - 8 oz. Conc.	\$14.99
1246611	Captain Jack's Neem Max - 16 oz. Conc.	\$22.99

Cannot be shipped to the following states: DC, HI, ME, PR



# **ECOWORKS EC®**

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

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

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



is also an exceptional fly repellent. Can be applied as a foliar spray, soil drench, in soil-less media or in recirculating systems. This residue-free formulation is EPA registered, UV stabilized to reduce risk of crop burn and has a 0-day PHI. Can be used with beneficial insects.

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

1450551	EcoWorks EC - 4 oz.	\$8.80
1450553	EcoWorks EC - 16 oz.	\$23.60
1450554	EcoWorks EC - 32 oz	\$40.05

Cannot be shipped to the following states: AK, ME, MD, MA, VA

### 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.

1450570	Rango - Concentrate - 32 oz.	\$34.95
1450572	Rango - Concentrate - Gallon	\$89.95
1450573	Rango - Concentrate - 2.5 Gallons	\$219.99
Case sizes available.		

# **Monterey Neem Oil**

Effective Against Indoor And 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.





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

1555615	Monterey Neem Oil - 32 oz. RTU	\$14.49
1555616	Monterey Neem Oil - 16 oz. RTS	\$29.49
1555613	Monterey Neem Oil - 8 oz. Concentrate	\$15.99
1555614	Monterey Neem Oil - Pint Concentrate	\$26.99
1555618	Monterey Neem Oil - Gallon Concentrate	\$144 49

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

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

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

 1332890
 BioCeres WP - 1 lb. Bag
 \$90.00

 1332895
 BioCeres WP - CA Version - 1 lb. Bag
 \$90.00

Case sizes available.

SKU 1332890 cannot be shipped to the following states:  $\ensuremath{\mathsf{AK}}, \ensuremath{\mathsf{HI}}$ 

# 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.

 1341100
 Mycotrol WPO - 1 lb.
 \$125.00

 1341105
 Mycotrol WPO - 1 lb. (Case of 12)
 \$1,350.00

### 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 guart 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**

 1341010
 BotaniGard ES - Quart
 \$110.00

 1341020
 BotaniGard ES - Gallon
 \$300.00

**BotaniGard 22WP** 

**1341000** BotaniGard 22WP - 1 lb. Powder **\$95.00** 

Case sizes available.

Shipping Restrictions: Cannot ship via US Mail.

#### **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 subtsugae* 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.	\$40.00
1332954	Grandevo CG - 4 lbs.	\$140.00
1332952	Grandevo WDG - 6 lbs.	\$162.00



# **Monterey Garden Insect Spray**

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

**TARGET:** 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. 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. Not for commercial use.

**SUGGESTED USE**: 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.

1257907	Monterey Garden Insect Spray - 32 oz. RTU	\$13.49
1257906	Monterey Garden Insect Spray Conc 32 oz. RTS	\$32.99
1257900	Monterey Garden Insect Spray Conc Pint	\$19.99
1257905	Monterey Garden Insect Spray Conc Quart	\$30.49
1257910	Monterey Garden Insect Spray Conc Gallon	\$103.49

### **NoFly™ WP**



This Aggressive Fungus Controls Soft-Bodied Insects & Hard-To-Kill Livestock Pests.

**TARGET:** Aphids, Bagrada bugs, beetles (including darkling, litter, carrion & hide), fungus gnats, gnats, grasshoppers, leaf hoppers, locust, lygus bugs, mealybugs, mites (including russet, spider & chicken), Mormon crickets, northern fowl mites, plant bugs, psyllids, red poultry mites, thrips, weevils, and whiteflies.

**DESCRIPTION:** This organic wettable powder mycoinsecticide contains spores of the entomopathogenic fungus *Isaria fumosoroseus* strain FE 9901. This



naturally occurring fungus is a common and aggressive predator of insect pests but is not a plant pathogenic organism and will not adversely affect beneficials (including bees). When the spores come into contact with the insect pest, they will immediately attach themselves to the body. As they grow, they will penetrate the host insect's body and disrupt the normal functions of the insect's internal organs and tissues. It will stop feeding within 24 hours and die in 3-7 days. Effective against all life stages of insect pest.

**SUGGESTED USE:** Can be used as a foliar, soil or hydroponic application. Rates for crops: Foliar: 1/2-2 lb/ acre or 2-8 oz/ 11,000 sq. ft. at a minimum of 0.1% solution. Soil: 14-28 oz/100 gals water at a rate of 1 gal of solution per cu ft of growing media or 6-12 oz/5-10 gals water/yard of soil. Hydroponics: 6-16 oz/100 gals water. Rates for turf: 1/2- 2 lb/ acre or 2-8 oz/11,000 sq. ft. applied at a minimum of 0.1% solution. Rates for poultry houses & livestock barns: 1-3 oz/12 gals water.

1332875	NoFly WP - 8 oz.	\$67.78
1332876	NoFly WP - 2 lbs.	\$225.99

Cannot be shipped to the following states: AK, DC  $\,$ 

# products available OMRI LISTED

# **Venerate® CG & Venerate® XC**

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

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

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



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

1332957	Venerate CG - Quart	\$58.00
1332956	Venerate CG - Gallon	\$160.00
1332960	Venerate XC - 2.5 Gallons	\$260.00

Cannot be shipped to the following states: DC (Concentrate only)

#### **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:** Through a patented process, the active ingredient in Azasol, Azadiractin, is transformed into water-soluble amorphous powder that quickly dissolves in water and won't clog equipment or leave an oily residue or discoloration on plants. 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. Won't burn leaves or block photosynthesis. Can be injected in trees for guick results.

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

1457620	AzaSol25 oz.	\$19.99
1457621	AzaSol75 oz.	\$46.99
1457622	AzaSol - 6 oz. (8 x 0.75 oz.)	\$329.99
1457624	AzaSol - 1 lb. Bottle	\$599.00
1457625	AzaSol - 2 lb. Jug	\$1,297.00

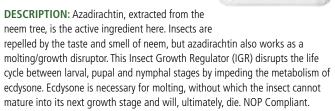


**⊗**AzaGuard

### **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.



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

1222204	AzaGuard - 32 oz.	\$275.00
1222206	AzaGuard - Gallon	\$1000.00
1222208	AzaGuard - 2.5 Gallon	\$2,495.00

#### **PYRETHRINS**

# **PyGanic® Gardening**





Rapid Knockdown & Kill For Outdoor Pests In Your Garden.

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

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



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

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

1288710	PyGanic Gardening - 8 oz.	\$25.50
1288720	PyGanic Gardening - 32 oz.	\$64.00
1288730	PyGanic Gardening - Gallon	\$236.00

# **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 guick 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 guart 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

1341030	BotaniGard Maxx - Quart	\$115.00
1341040	BotaniGard Maxx - Gallon	\$365.00
1341050	BotaniGard Maxx - 2.5 Gallons	\$710.00

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.

Case sizes available.



# **ARBICO Organics® Compost Plus**

Revitalizes Soil & Speeds Up Decomposition Of Organic Matter.

**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 bsp. 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.

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

<sup>\*</sup>Call to arrange pickup. Pickup in Catalina, AZ.

# ARBICO Organics® Red Composting Worm Mix - Eisenia fetida, Eisenia hortensis, Perionyx excavatus

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

**DESCRIPTION:** These worms are nature's decomposers and soil aerators. They consume organic matter and turn it into castings full of nitrogen, phosphorus, potash, magnesium and calcium. As they move through the soil, they break it up and introduce beneficial bacteria and oxygen. This stimulates fungal activity and more rapid breakdown of organic matter. Plants love soil that these worms have been in!



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

**1308003** ARBICO Organics Earthworms (≈1,000) **\$45.00** 

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

Subject to seasonal availability.

# Mighty Plant™ Instant Compost Tea



**DESCRIPTION:** This innovative product is a compost tea in water soluble powder form that requires no brewing. 100% natural with no fillers and densely packed with nutrition and beneficial microbes. It can be used on any plant under any nutrition program at any stage of plant growth. 1 lb makes 160 gallons of tea. More sanitary and less messy than brewing, while eliminating the risk of introducing pathogens that can occur in that process.



**SUGGESTED USES:** Unchlorinated water is highly recommended. Can be applied as a drench or spray on indoor and outdoor plants in soil/soil-less media, transplants, clones/cuttings and trees. Most application rates are 1-2 tsp/gal water every 14-21 days or 1 lb/100 gals water. Rows: Evenly spread 1/2 cup/10 ft of row or 1 cup/ 100 sq ft and water in. Trees: Pot size 2-4", use 1 tsp. 6-10", use 1-2 tbsp. Trunk caliper 1-2", use 4 tbsp.

1305565	Mighty Plant Instant Compost Tea - 5 oz	\$18.00
1305566	Mighty Plant Instant Compost Tea – 1 lb	\$45.00
1305567	Mighty Plant Instant Compost Tea – 5 lbs	\$200.00
1305568	Mighty Plant Instant Compost Tea – 25 lbs	\$950.00

Cannot be shipped to the following states: AL, DE, IA, KS, KY, NJ, ND, OK, OR, RI, SC, VT, WA, WV, WY

# **ARBICO Organics® Earthworm Castings**

So Good For Your Garden It's Almost Magical!

**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 chitnase (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. Topdress 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.

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

organics

Root Build

240

# **ARBICO Organics®** Root Build 240™ Mycorrhizal Fungi

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

**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.

SUGGESTED USE: Inoculate roots with mychorrhizal spores (1 oz. is ≈3 Tbsp.)

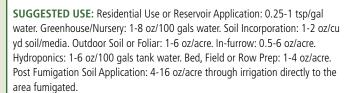
For vegetables, grasses, flowers, shrubs, fruit trees and ornamentals.

1135001	ARBICO Organics Root Build 240 -1 oz.	\$9.00
1135002	ARBICO Organics Root Build 240 - 2 oz.	\$12.50
1135003	ARBICO Organics Root Build 240 - 8 oz.	\$31.50
1135004	ARBICO Organics Root Build 240 - 1 lb.	\$45.00
1135005	ARBICO Organics Root Build 240 - 10 lbs.	\$329.00
*Free shipping in th	e contiguous 48 United States via USPS mail.	

# **Armory® SP**







biological stimulants **but avoid mixing with** copper sulfate pentahydrate,

1202165	Armory SP - 2 oz.	\$34.99
1202166	Armory SP - 1 lb.	\$165.45





# **Great White® Premium Mycorrhizae**

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

Ecto Spores: 1 x 10<sup>6</sup> spores/gr.

**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  $\approx$  1 part/2 parts water.

2000064	Great White Mycorrhizae - 1 oz.	\$14.95
2000065	Great White Mycorrhizae - 4 oz.	\$34.95
2000066	Great White Mycorrhizae - 8 oz.	\$63.95
2000067	Great White Mycorrhizae - 32 oz.	\$219.95
2000072	Great White Mycorrhizae - 5 lbs.	\$395.95

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

### EM•1® Microbial Inoculant

Faster Breakdown Of Organic Matter.

sulfur and hydrogen peroxide type products.

**DESCRIPTION:** EM-1 is a versatile microbial product that converts organic matter into humus and improves soil structure; it can be used in garden, agricultural, hydroponic and houseplant applications. It works by producing high levels of polysaccharides, beneficial enzymes and organic acids. The resultant amended soil is better able to absorb and retain moisture, as well as cycle nutrients. As it rapidly breaks down organic matter around animals and in compost piles, it lessens odors and will leave fewer breeding areas for flies and other insects.



**SUGGESTED USE:** Can be applied via a hose-end sprayer or other watering device. General application rate is 1 oz (2 Tbsp.) per gal/water. Hydroponics: Add EM-1 as a 3% solution several times a week.

1202098	EM●1 Microbial Inoculant - 16 oz.	\$29.70
1202101	EM•1 Microbial Inoculant - Quart	\$45.00
1202102	EM•1 Microbial Inoculant - Gallon	\$79.70
1202103	EM•1 Microbial Inoculant - 5 Gallons	\$398.50

Call for larger sizes.

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

#### **BIO520**





#### An Exceptional Blend Of Nutrients That Could Be Your Only Additive.

TARGET: Seeds, clones, transplants and all sorts of crops grown using a wide variety of methods.

**DESCRIPTION:** This all-natural liquid nutrient product promotes overall growth enhancement and supports optimal plant cultivation. It has over 100 veganic compounds, humic and amino acids, microorganisms, diatomaceous material, vitamins, plant enzymes, marine extracts and more. Boosts



plant health, improves nutrient uptake, increases yield, produces high-quality fruit and flowers and blocks the uptake of heavy metals and toxins. Contains no animal products or manure. Use on its own or as a part of a feeding regime.

SUGGESTED USE: For all kinds of growing media. For best results, remove all animal-derived fertilizers from your irrigation solution and replace with BIO520. Seed germination: 1 part conc/500 parts irrigation water. Irrigation: 1 part conc/1,000 parts irrigation water. Irrigate at normal volumes and frequency.

1320120	BIO520 — Pint	\$47.50
1320121	BIO520 – Gallon	\$266.00

## **Dr. Earth Fruit Tree & Citrus Fertilizers**<sup>™</sup>

**Excellent Fertilizers For Lush Growth &** Abundant Fruit.

TARGET: Citrus, apples, avocados, berries, fruit trees, grapes, nut trees, peaches & all vines.

**DESCRIPTION:** These tree fertilizers are formulated from premium organic nutrients and TruBiotic®, a broad spectrum biological inoculant containing beneficial microbes and mycorrhizae fungi. The beneficial microbes and mycorrhizae work in the

Cannot be shipped to the following states: HI



soil to allow complete breakdown of organic matter, seamless nutrient uptake, and vibrant root growth. This microbial soil activity works synergistically with the primary and micronutrients to produce plants that perform at their very best. Sustainably made and contains no synthetic ingredients or chicken

SUGGESTED USE: Add to the hole while transplanting or use throughout the year. For best results always mix fertilizer with the soil. Before planting, add 1-2 lb/5 gals soil. For established plants, use ½-1 lb/ea inch of trunk diameter. Use every 2-3 months throughout the growing season. Can also be used for tea.

1329120	Dr. Earth Natural Wonder Fruit Tree Fertilizer – 1 lb. bag	\$6.99
1329121	Dr. Earth Natural Wonder Fruit Tree Fertilizer – 4 lb. bag	\$16.49
1329140	Dr. Earth Sweet & Sour Citrus Fertilizer – 4 lb. bag	\$14.99

### Fish Sh!t





Provides A Robust & Diverse Microbe Profile For **Multiple Plant Benefits.** 

TARGET: Fruits, herbs and vegetables grown in soil, hydro or coco.

**DESCRIPTION:** This OMRI listed soil conditioner is a byproduct of a Tilapia farm where the fish are fed a propriety mix of organic feed. At the proper time, the digested feed is carefully harvested and bottled under strictly managed conditions. The result is a product with a complex microbial profile of thousands of different species of bacteria, fungi and protozoa. These microbes are essential to maintaining a living soil and to growing



top quality plants. Fish Sh!t will increase yield and nutrient uptake, release essential oils and terpenes for aromatic and flavorful plants and fruits, and promote overall health to keep your plants growing and producing at their highest level.

SUGGESTED USE: Soil: Can be used in conjunction with any nutrient line and in all phases of the plant's lifecycle. 3-6 mL per gallon. Hydro/Coco: 2-4 mL per gallon.

1315100	Fish Sh!t - 120 mL (4 oz.)	\$19.88
1315101	Fish Sh!t - 250 mL (8.5 oz.)	\$33.75
1315102	Fish Sh!t - 500 mL (17 oz.	\$56.25
1315103	Fish Sh!t - Liter (34 oz.)	\$101.25

# HastaGro Plant Food, 6-12-6



**Gives Plants Multiple Types Of Goodness In** One Product.

TARGET: Potted plants, flowers, vegetables, trees, shrubs, transplanting and bed preparation.

**DESCRIPTION:** Contains a high quality 6-12-6 plant food for first-rate nutrition, a soil activator that stimulates biological activity in the soil, humic acid to improve soil structure and nutrient uptake, and seaweed extracts to boost fruiting and flowering. Will not cause leaf burn. Nitrogen is from clean urea sources and complexed with humic acid. Prevents salt and chemical



SUGGESTED USE: Foliar Feeding: 1/2 oz/gal water. Spray leaves to point of dripping. Do not rinse. Use every 1-2 weeks. Soil Treatment: 1 oz/gal water. Thoroughly water. Use every 2-3 weeks. Houseplants: ½ oz/gal water. Soak soil and/or spray leaves. Use every watering. Transplanting: 1 oz/gal water. Spray foliage and water roots. Do not use undiluted. Use within several hours of mixing. Do not store mixed solution.

1314740	Hasta Gro Plant Food - 32 oz. Concentrate	\$12.89
1314741	Hasta Gro Plant Food - Gallon Concentrate	\$32.49

#### Sea Power

Seaweed fertilizers provide broad plant benefits throughout the growing cycle and serve as biostimulants. Kelp's vitamins, minerals and enzymes are a valuable source of nitrogen, magnesium, potassium, zinc and iron. Seaweed and kelp-based fertilizers can reduce the effects of stressors, boost plant recovery and limit nutrient burn while increasing harvest yields.



maxicrof

# 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.

1313001	Maxicrop Soluble Seaweed Powder - 10.7 oz.	\$20.00
1313002	Maxicrop Soluble Seaweed Powder - 27 oz.	\$38.00
1313003	Maxicrop Soluble Seaweed Powder - 5 lbs.	\$75.00
1317202	Maxicrop Soluble Seaweed Powder - 44 lbs.	\$463.20



# Maxicrop® Kelp Meal, 1-0-2 Successful Growers Choice To Correct

Deficiencies & Improve Plant Nutrition!

TARGET: Deficient soils that need macronutrients.

**DESCRIPTION:** Maxicrop Kelp Meal (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. It is an excellent

soil additive that stimulates microbial activity and provides a strong supply of naturally chelated nutrients.

**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  $\approx$ 3,000 sq. ft.; 2,200 lbs. treats  $\approx$ 3 acres.

1314801	Maxicrop Kelp Meal - 5 lbs.	\$23.50
1314804	Maxicrop Kelp Meal - 55 lbs.	\$107.00

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

The Best Of Both Products For A Complete Fertilization Program.

TARGET: All types of plants and crops.

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

1315012	Pint	\$14.99
1315011	Quart	\$22.79
1315013	Gallon	\$54.59
1315014	5 Gallons	\$164.99

Larger sizes available.

# products available OMRI LISTED For Organic Use



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

**Versatile Without Unpleasant Odors!** 

TARGET: Soils requiring rapid nourishment.

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

1315001	Pint	\$12.49
1315000	Quart	\$18.49
1315002	Gallon	\$45.49
1315003	5 Gallons	\$151.29

Larger sizes available.





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

Contains Over 60 Naturally Occurring Nutrients & Amino Acids!

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

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

1315008	Pint	\$13.99
1315007	Quart	\$19.49
1315009	Gallon	\$47.49
1315010	5 Gallons	\$174.79

Larger sizes available.





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

### DTE Acid Mix, 4-3-6

One Of The Best Fertilizers That Is Specially Formulated For Acid Loving Plants!

1300200	Down To Earth Acid Mix Mini - 1 lb.	\$5.99
1300201	Down To Earth Acid Mix - 5 lbs.	\$15.99

### DTE Bone Meal, 3-15-0

Help Your Plants Have The Best Chance To Establish Healthy **Roots & Flowers!** 

1300219 Down To Earth Bone Meal - 5 lbs. \$16.99

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

Fertilizer For All Of Your Growing Needs!

1300209	Down To Earth All Purpose Mix Mini - 1 lb.	\$5.99
1300207	Down To Earth All Purpose Mix - 5 lbs.	\$15.99

### DTE Crab Meal, 4-3-0

A Versatile Fertilizer That Provides Nutrients, Is An Excellent Compost Amendment & Has Nematicidal Properties!

1300225 Down To Earth Crab Meal - 5 lbs. \$16.99

# DTE Bat Guano, 7-3-1

High-Nitrogen Fertilizer From Bat Guano.

1300006	Down To Earth Bat Guano Mini25 lb.	\$5.99
1300007	Down To Earth Bat Guano - 2 lbs.	\$16.99
1300008	Down To Earth Bat Guano - 10 lbs.	\$57.99

## DTE Fish Bone Meal, 4-12-0

Marine Based Bone Meal For All Of Your Growing Needs.

1300286 Down To Earth Fish Bone Meal Mini - 1 lb. \$5.99 1300287 Down To Earth Fish Bone Meal - 5 lbs. \$16.99

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

A Microbe-Rich Fertilizer To Help Build Living Soil!

1300260	Down To Earth Bio-Live - 5 lbs.	\$20.49
1300261	Down To Earth Bio-Live - 25 lbs.	\$74.98
1300262	Down To Earth Bio-Live - 50 lbs.	\$119.99

### **DTE Kelp Meal, 1-0.1-2**

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

1300280	Down To Earth Kelp Meal Mini5 lb.	\$5.99
1300281	Down To Earth Kelp Meal - 5 lbs.	\$26.99

## DTE Blood Meal, 12-0-0

High In Nitrogen - The Key For Leafy Greens & Healthy Bulbs!

1300300	Down To Earth Blood Meal Mini5 lb.	\$5.99
1300301	Down To Earth Blood Meal - 5 lbs.	\$25.99
1300302	Down To Earth Blood Meal - 20 lbs.	\$89.59
1300303	Down To Earth Blood Meal - 50 lbs.	\$159.99

### **DTE Vegetable Garden, 4-4-4**

Give Your Vegetable Garden A Powerful Nutrient Boost!

1300298	Down To Earth Vegetable Garden - 1 lb.	\$4.99
1300299	Down To Earth Vegetable Garden - 5 lbs.	\$14.99
1300294	Down To Earth Vegetable Garden - 15 lbs.	\$39.99

See online for shipping restrictions and larger sizes.

Call 1-800-827-2847 or	Order Online www.arbico-organics.com

OMR]

OMRI

## RootShield® Plus Granules & RootShield® Plus WP

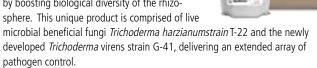




Use This Biological Fungicide To **Eliminate Hard To Control Diseases!** 

**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 rhizo-



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.

1332755	RootShield Plus Granules - 40 lb. Bag	\$485.00
1332756	RootShield Plus WP - 1 lb. Bag	\$145.00
1332757	RootShield Plus WP - 3 lb. Box	\$300.00

Largre sizes available.

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

### **BONIDE® Sulfur Plant Fungicide**

Effective Against Several Key Insect Pests As Well As Fungal Diseases.

**TARGET:** Knockdown control for apple cedar rust, black rot, brown rot, chiggers, citrus red spider, fleas, frog eye, leaf spot, powdery mildew, quince rust, rust mite, scab, scale, sooty blotch, thrips, ticks, two-spotted spider mites and russet mites.

**DESCRIPTION:** The fine particles of this micronic sulfur product provide optimum coverage, adhesion and disease control and work equally well whether applied as a dust or mixed with water for a spray. For best results, apply thoroughly to all leaf surfaces before diseases develop and repeat weekly to maintain control.

SUGGESTED USE: Specially formulated for use on berries, cherries, grapes, citrus, apples, cucurbits, apricots and currants. Do NOT use when an oil spray has been applied within the prior month or when temperatures are expected to exceed 80°F. This container covers approximately 500 sq. ft. at the general mix and application rate.

1454701 BONIDE Sulfur Plant Fungicide - 1 lb. Bottle \$8.75 BONIDE Sulfur Plant Fungicide - 4 lb. Bag \$17.00 1454702

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

# Mycostop®

A Versatile & Highly Effective Stand-Alone Biofungicide.

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

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

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

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

1332981 Mycostop - 5 grams \$138.00 1332982 Mycostop - 25 grams

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

# MilStop SP Foliar Fungicide

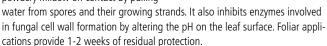


Mildew & Other Fungal Diseases! TARGET: Powdery mildew, Alternaria blight, Anthracnose, black spot, Botrytis

**Excellent For Controlling Powdery** 

blight, Cercospora leaf spot, downy mildew, Phomopsis blight, and Septoria leaf spot.

**DESCRIPTION:** MilStop SP is an OMRI listed foliar fungicide. This potassium bicarbonate-based fungicide kills powdery mildew on contact by pulling



**SUGGESTED USE:** Milstop must be mixed with water before spraying. Field applications: Mix 2-5 lbs. per acre in a volume of water sufficient for complete coverage of plant foliage. Greenhouse applications: Mix 1.25 - 5 lbs per 100 gallons of water. (See label online for specific crops, diseases and application systems.)

1332766	MilStop SP Foliar Fungicide - 5 lbs.	\$75.00
1332767	MilStop SP Foliar Fungicide - 25 lbs.	\$280.00





Sulfur

# 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>s</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.

1332968	Regalia CG - Quart	\$51.00
1332969	Regalia CG - Gallon	\$120.00
1332970	Regalia - 2.5 Gallons	\$235.00

### **Serenade ASO**







Contains A Powerful Soil Bacterium That **Controls Many Common Diseases** 

TARGET: Alternaria, Anthracnose, Blights, Botrytis, Damping-Off, Downy Mildew, Erwinia, Fusarium, Leaf Spots, Monilinia, Phomopsis, Powdery Mildew, Pseudomonas, Pythium, Rhizoctonia, Sclerotinia, Sooty Blotch, Sour Rot, Xanthomonas and more.

**DESCRIPTION:** Designed to be applied preventatively, this OMRI-listed biofungicide uses Bacillus subtilis QST 713 to control soil and foliar



bacterial and fungal diseases. It forms a biofilm around seeds, roots and transplants; kills outright; promotes enhanced photosynthesis and healthy growth that can ward off disease. Can be applied to most common crops. Non-toxic to beneficials. O-day PHI & 4-hr REI. No resistance risk.

SUGGESTED USE: Apply with spray equipment for ground and aerial applications and irrigation systems used for chemigation. Most effective when used preventatively. May be used with other fungicides and pesticides (with restrictions). Rate: 2-6 qts/acre or 1.28-3.8 oz/gal of water. Re-treat in 2-10 day intervals. A surfactant may improve efficacy.

1332910 Serenade ASO - 2.5 gallons \$132.90

# **CEASE® Biological Fungicide**



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

Didymella bryoniae (gummy stem blight), Entomosporium, Erwinia, Fusarium, powdery mildew, Pseudomonas, Xanthomonas, Rhizoctonia, Pythium, Phytopthora and more.



fungicide/bactericide containing a patented strain

of *Bacillus subtillis*. 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 phytoxicity 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.

1332724	Cease - Gallon	\$100.00
1332727	Cease - 2.5 Gallons	\$215.00
1332725	Cease - Gallon, Case of 4	\$360.00
1332728	Cease - 2.5 Gallons, Case of 2	\$387.00

## **Monterey Complete Disease Control**



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

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

**DESCRIPTION:** This organic, 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. 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 1458204	Complete Disease Control - 32 oz. RTU Complete Disease Control - 32 oz. Hose-End RTS	\$16.99 \$28.49
1458200	Complete Disease Control - 8 oz. Concentrate	\$12.99
1458201 1458202	Complete Disease Control - Pint Concentrate Complete Disease Control - Gallon Concentrate	\$17.79 \$96.99

SKUs 1458200, 1458201, 1458202 & 1458204 cannot be shipped to the following states: ND

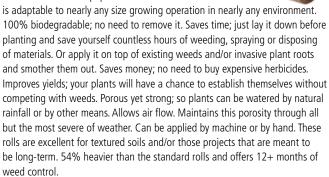
#### **WEED BARRIERS**

# WeedGuardPlus® - Heavy Weight Rolls

This Tough Weed Block Will Hold Up Under The Elements!

**TARGET:** Use for weed suppression.

**DESCRIPTION:** This paper weed block



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

1453851	Heavy Weight - Smooth Finish - 36" x 100'	\$37.99
1453852	Heavy Weight - Smooth Finish - 48" x 100'	\$54.99

### **EcoMulch Rolls**





#### Season-Long Weed Protection With No Clean Up

**TARGET:** Home gardening, commercial growers, organic growers, nurseries, seasonal landscaping, habitat restoration and more.

**DESCRIPTION:** This is an OMRI-listed seasonal-use weed barrier paper that offers superior weed prevention from planting

through harvest. Made from 100% natural, biodegradable fibers sourced from corrugated box clippings, this product will decompose slowly over the growing season. At the end of the season till any remaining paper into the soil. Adds texture and organic matter to soil. Porous to allow air, water and nutrients to pass through. Opaque to keep weeds from developing past germination.

Creped finish makes it more flexible for easy application and dark color keeps soil warm.

**SUGGESTED USE:** Can be applied by hand, by tractor or by a mechanical mulch layer. Suitable for overhead or drip tape irrigation methods. Do not attempt application on a windy day. Put in place before you sow seeds or install transplants and seedlings. Product may be affected by variances in weather or soil conditions.

1453858	EcoMulch - 24" x 50' rolls – 2 pk - Creped	\$20.99
1453859	EcoMulch - 36" x 50' rolls – 2 pk - Creped	\$28.99

#### **SELECTIVE**

## BONIDE® Captain Jack's™ Lawnweed Brew

Kills the Weeds - Not Your Lawn.

**TARGET:** Moss, algae, lichens, liverwort, lawn diseases (dollar spot, rust, snow mold), and common broadleaf weeds such dandelion, clover, chickweed and thistle.

**DESCRIPTION:** This product offers pre-and post-emergent control using an active ingredient derived from Iron(Fe). Mixes quickly and thoroughly with water and works quickly (within hours) to kill down to the roots. Can be applied in temperatures down to 50°F and is rainfast in 3 hours. Once the spray has dried, treated areas are safe for people and animals. Do not apply to recently seeded lawns, but lawns can be reseeded 1 day after application. Gives lawns a green-up.



**SUGGESTED USE:** Use with any standard handheld, backpack, compression or knapsack sprayer. Mix 1 part product with 24 parts water (5 fl oz in 1 gal water). Repeat in 3-4 wks for spot control. Pre-emergent control; Apply 5-10 gals of spray solution/1,000 sq ft depending on weed pressure. Reapply 3-6 wks later. Ensure lawn is well watered before application. Do not apply to bentgrass. Do not apply at temps over 85°F. Do not apply if rainfall is expected with 3 hrs of application. Do not apply to the same area more than 4 times a year. To avoid staining, wait until treated area dries before re-entry.

1453754	Captain Jack's Lawnweed Brew - 16 oz. Conc.	\$14.99
1453752	Captain Jack's Lawnweed Brew - 32 oz. Conc.	\$21.99

Cannot be shipped to the following states: CA, PR

#### **BROAD SPECTRUM**

# **Avenger® Weed Killer**

Fast-Acting Natural Herbicide.

**TARGET:** Broadleaf, crab grass and other unwanted weeds.

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

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



1453808	Avenger Weed Killer - 24 oz. RTU	\$13.50
1453809	Avenger Weed Killer - Quart Concentrate	\$30.00
1453810	Avenger Weed Killer - Gallon Concentrate	\$94.00
1453812	Avenger Weed Killer - 5 Gallons Concentrate	\$360.00

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

### Avenger® AG Optima Burndown Herbicide



A Versatile D-Limonene Herbicide That Works Quickly & Thoroughly.

**TARGET:** Grasses and broadleaf weeds (both annual and perennial).

**DESCRIPTION:** This non-selective weed killer uses d-limonene (a natural citrus oil) as its active ingredient and has been developed for agricultural and non-agricultural uses. This clean-smelling citrusy spray will not translocate or stain brick, concrete or pavement. NOP compliant.



**SUGGESTED USE:** Mix in water and apply to all sides of foliage until weeds are thoroughly wet. Spray when temps are above 50°F. Fill spray tank 1/2 full with clean water, add product while agitating. Apply at a 7-10% mixture, depending on the size of the weeds. Use lower rate for smaller weeds and higher rate for larger, hard-to-kill weeds. Use lower rate whenever possible. Do not exceed 5 gals product/acre per application or a total of 16 gals/acre/year. Be careful to avoid spray drift.

1453740	AG Optima - 32 oz. Concentrate	\$35.00
1453741	AG Optima - Gallon Concentrate	\$110.00
1453713	AG Optima - 2.5 Gallons - Case of 2 (5 Gal.)	\$425.00

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.

**1453822** Biosafe Weed & Grass Killer - Gallon Concentrate **\$69.99** 

## BONIDE® Captain Jack's™ Deadweed Brew



Uses Caprylic Acid To Quickly & Safely Kill Unwanted Vegetation

**TARGET:** Broadleaf weeds, grasses, algae and moss (both perennial and annual).

**DESCRIPTION:** This non-selective herbicide can be used anytime of the year but works best during warm and dry conditions. Can be applied virtually anywhere around the home and garden to control existing weeds, either before or after planting. Will not translocate. Pint bottle treats up to 1,600 sq. ft. and quart treats up to 3,200 sq. ft. Pint makes up to 4 gals



finished spray; qt makes up to 8 gals and gal makes up to 32 gals.

**SUGGESTED USE:** Apply with a handheld or backpack type of sprayer. Apply the mixed solution at 2 1/2 - 7 1/2 gals/1,000 sq. ft. (lower rates for small weeds, higher rates for larger ones). Spray weed thoroughly, using a coarse nozzle setting to reduce drift. Damage will be visible from a few hours to a few days after spraying. Re-treat every 2-3 weeks.

1453780	Deadweed Brew - Pint Concentrate	\$19.99
1453781	Deadweed Brew - Quart Concentrate	\$34.99
1453786	Deadweed Brew - Gallon Concentrate	\$158.99

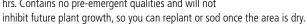
# Earth's Ally® Weed & Grass Killer



Simple Ingredients Create Superb Results.

**TARGET:** Kills all common weeds, including broadleaf, crabgrass, dandelion, clover, ivy, chickweed and more.

**DESCRIPTION:** This non-selective herbicide uses sea salt (sodium chloride) to quickly and thoroughly eliminate unwanted weeds. You'll get the results you want, without the harsh chemicals and harmful side-effects found in glyphosate herbicides. Kills all the way down to the roots with visible results in 3 hrs. Contains no pre-emergent qualities and will not



**SUGGESTED USE:** Use on a bright, sunny day and be careful to avoid overspray on desirable plants. Do not dilute. Thoroughly wet the weed you want to eliminate. Do not use during rainfall or when the weeds are wet. Multiple applications may be needed for certain tough and dense weeds. Avoid use when pollinators are active, otherwise this product is bee safe.

1459340	Earth's Ally Weed & Grass Killer RTU - 24 oz.	\$12.99
1459341	Earth's Ally Weed & Grass Killer RTU - Gallon	\$29.99

## **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

# Essentria™ G Granular Insecticide

A Granular That Handles A Handful Of **Outdoor Pests!** 

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

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

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

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



## **EcoPCO® AR-X Multi-Purpose Insecticide**

Ouick 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.

EcoPCO® AR-X Multi-Purpose Insecticide - 15 oz. \$19.49 Ships via Ground ONLY.







**Works Fasts & Provides Continued Protection** For Weeks.

TARGET: Ants, centipedes, chiggers, cockroaches, crickets, earwigs, fleas, gnats, mosquitoes, moths, pillbugs, silverfish, spiders, stinkbugs, ticks and wasps.

**DESCRIPTION:** This organic pest control spray is crafted from a selection of essential oils (rosemary, sesame, peppermint, thyme, cinnamon and garlic). Each of these oils has its own valuable characteristics for pest control, but when put together their synergistic power outweighs each individual ingredient. Works as a knockdown and kill spray but will also provide weeks-long protection. Insect death occurs minutes to hours after application. No synthetic ingredients. For indoor or outdoor use.



SUGGESTED USE: This product is ready-to-use from the bottle. Prior to application, test a small, discreet area first to check for surface discoloration. Use around your home and garden. Thorough coverage of the insect is required. Repeat applications as often as needed to kill target insects. Do not spray plants directly, this is a very strong spray that will cause leaf burn.

1459360 Final Stop Pest Control Killer Spray - 24 oz. RTU \$14.49

#### **FIRE ANT CONTROL**

## Fertilome® Come And Get It II Fire Ant Killer



Kills The Whole Colony And Its Queen.

**TARGET:** Red Imported Fire Ants (*Solenopsis invicta*) and Harvester Ants.

**DESCRIPTION:** Fire Ants are notoriously hard to get rid of but even harder to live with. But this spinosad-based bait is very appealing to these insects. So much so, that they will take it back into their mound to share with the rest of the colony – including their queen. Ants start dying in 24-36 hours with mound or colony destruction in 3-14 days. Broadcast applications may take longer.



**SUGGESTED USE:** Apply around the perimeter of homes, ornamental plants, trees and shrubs, and in lawns and gardens. **Mounds:** 4 Tbsp. for each mound. For mounds larger than 15" in diameter, use 6 Tbsp. Sprinkle over and around mound in a 4 ft. diameter circle. **Broadcast:** Use 1/3-2/3 cup/1,000 sq. ft. or 3-6 cups/10,000 sq. ft. or 2 1/2-5 lbs/acre. Use higher rates for heavier infestations, faster activity and greater overall control. Spread with a hand-held or ground-driven rotary spreader. Extremely large mounds may require repeat applications. Use every other month during warm months to keep ants away. For outdoor use only.

**1460020** Fertilome Fire Ant Killer - 1 lb. Bag **\$22.99** Cannot be shipped to the following states: AK, CA, CO, HI, ID, MT, NM, NV, OR, WY

# Orange Guard® Fire Ant Control



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 - Gallon \$32.75

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

#### PERSONAL REPELLENTS

## **BiteBlocker® Insect Repellents**

**DEET Free Protection From Biting Pests.** 

1211820BiteBlocker Family Safe Pen - Single - .5 oz.\$3.601211821BiteBlocker Family Safe Pen - 2 pack - .5 oz. each\$6.001211815BiteBlocker Herbal Insect Repellent Spray - 4.7 oz.\$7.991211819BiteBlocker Xtreme Insect Repellent - 6 oz.\$8.98





# Medella Naturals™ Insect & Mosquito Repellent Spray

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

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



## **Aunt Fannie's Mosquito Spray**

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

**1280681** Aunt Fannie's Mosquito Spray - 150 ml



# **Aunt Fannie's Mosquito Wipes**

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

1280670	Mosquito Wipes - 10 Towlettes	\$9.49
1860675	Mosquito Wipes - Case of 12/10-Packs	\$102.48



acks \$102.48

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

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



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



**Weed Control** 

#### **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.







#### **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.

#### LIVE DELIVERY & REFUND POLICY

For products other than live insects: Unused, unopened, undamaged items in original packaging can be returned within 30 days. For full details, see our Return Policy at <a href="https://www.arbico-organics/category/return-policy">www.arbico-organics/category/return-policy</a>.

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. We cannot accept returns or make refunds for other reasons since these are perishable products with a limited lifespan and cannot be resold. We cannot guarantee results with live insects since we have no control over how the product is applied, the extent of the problem, and other variables. But if you are not satisfied with your results, we will cancel any unshipped orders and refund the portion of any prepayment that applies to unshipped orders.



#### **Limitations and Disclaimers**

This publication is designed and produced by ARBICO Organics solely for informational purposes. Reasonable efforts have been made to provide accurate information, but errors may occur. All insect quantities are approximate (and the "double tilde" symbol ≈ 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.

# ARBICO Organics Brand Partners Providing Natural & Organics Solutions for Growers of All Sizes





















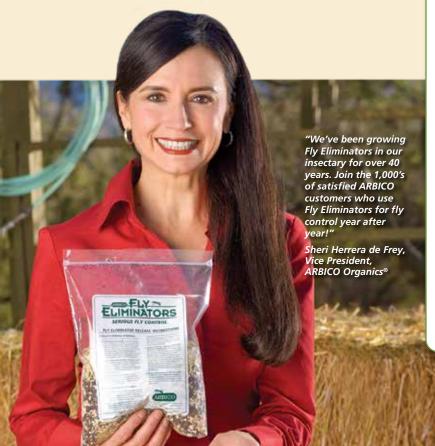






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# Only \$21.95

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

Number of Horses/Animals	Units Suggested <sup>†</sup>	Value Pricing
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6 - 10	1 Unit	\$32.95
11 - 15	1 1/2 Units	\$43.95
16 - 20	2 Units	\$57.95
21 - 25	2 1/2 Units	\$71.95
26 +	Please Call 1-800-827-2847	

# Order Your Fly Control Program Today! \*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. © 2023 Arizona Biological Control, Inc.

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Special Offer Code: Summer23

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