

ARBICO organics®

NATURAL & ORGANIC IPM SOLUTIONS

SPRING 2023



Cultivate Your Best

-  Predatory Insects
-  Biorational Insecticide
-  Amendments & Fertilizers
-  Weed & Disease Control



Contents

OUR PROMISE



Guaranteed Live Delivery



Customer Service



Commitment to Quality



Co-Founders Rick & Sheri Frey

How To Contact Us:

800-827-2847

www.arbico-organics.com

customercare@arbico.com

OFFICE & STORE HOURS:

Monday - Friday: 8:00AM - 4:30PM
(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

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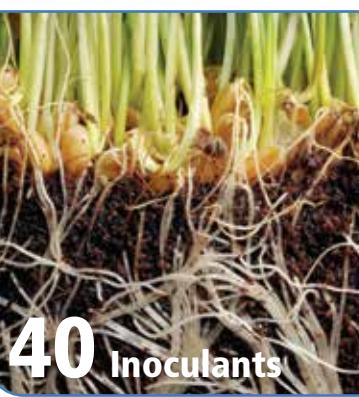
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PREDATORY INSECTS

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.

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

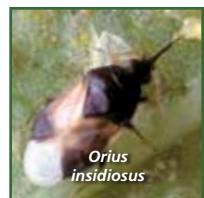


ADVANTAGES

- 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 - *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):



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.

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 CONTROL

Aphid Predator - *Aphidoletes aphidimyza*

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

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

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

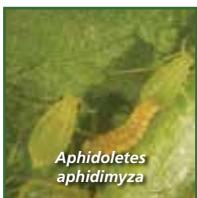
SUGGESTED USE (Depending upon level of infestation): Apply to existing infestations weekly, until pests subside. Use ≈1-3/10 sq. ft., ≈2-3/10 sq. ft. or ≈4,500/acre.

Temperature: Warm 64-77°F

Relative Humidity: Moderate ≈70%

1101001	≈1,000 Pupae	\$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 - *Aphelinus abdominalis*

These Ravenous Predators Will Eat & Parasitize Aphid Nymphs!

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

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

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

Temperature: 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 colemani*

Exceptional In Greenhouses Producing Vegetables & Ornamentals.

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

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

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

Temperature: 70-77°F

Relative Humidity: High ≈80%

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



Aphid Parasite - *Aphidius ervi*

This Non-Stinging Parasitic Wasp Attacks Larger Aphid Species.

Image Citation: Alex Wild



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

DESCRIPTION: These mini-wasps (1/8") are vigorous fliers and will aggressively seek out aphid populations, no matter how small. Once they find the aphids, they feed on the honeydew produced by the aphids and lay their eggs inside the aphid nymphs. As the larvae feed on the nymphs from the inside, the nymph turns into a mummy. The parasites are shipped to you 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 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

FUNGUS GNAT CONTROL



Integrated Pest Management of Fungus Gnats

1. Monitor and trap with yellow sticky traps to assess the severity of infestation.
2. Control soil moisture by providing proper drainage, avoiding standing water and allowing media to dry between waterings.
3. Circulate air and prune plants to ensure adequate air flow.
4. Prevent and treat infestations with *Bacillus thuringiensis israelensis* (see page 37).
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 larva and eggs. Adults are a brown-black color, 3-4 mm long and winged. They are predacious in all stages and develop from egg to adult in about 21 days; passing through three larval instars prior to pupation and adulthood. Adults consume about 150 pest fungus gnat eggs per day. Compatible with *Stratiolaelaps scimitus* (=*Hypoaspis miles*). Winged adults have high dispersal and colonization rates and are not recommended for outdoor use.



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

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

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.



Stratiolaelaps scimitus (=*Hypoaspis miles*)

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 37.**



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 backpack sprayer. See pages 15-17 for more information.



Thrips Predator - *Amblyseius cucumeris*

These Beneficial Mites Consume Vast Quantities Of Thrips.



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

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

SUGGESTED USE (Depending upon level of infestation): For best results, apply before onset of thrips infestation. For prevention, use at a rate of 10-20 mites per sq. ft. at weekly intervals. Use continuous release sachets at 1 per 3 sq. ft. for 3-6 weeks. Spot treat with 10-40 mites per sq. ft. weekly until infestation subsides. Monitor with blue sticky traps (see page 21).

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

BULK SIZES:

1152207	≈25,000 in Bran/Vermiculite Mix	\$30.00
1152204	≈50,000 in Bran/Vermiculite Mix	\$45.00
1152224	≈50,000 in Vermiculite	\$47.00
1152205	≈100,000 in Bran	\$60.00
1152206	≈250,000 in Bran/Vermiculite Mix	\$115.00
1152223	≈250,000 in Vermiculite	\$120.00
1152209	≈500,000 in Bran/Vermiculite Mix	\$200.00

CONTROLLED RELEASE:

1152225	≈125,000 in 500 Mini Sachets on Sticks	\$105.00
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
1152226	≈250,000 in 1,000 Mini Sachets on Sticks	\$150.00
1152228	≈500,000 in 500 Sachets w/Hooks	\$185.00
1152227	≈500,000 in 2,000 Mini Sachets on Sticks	\$280.00
1152220	≈1,602,000 in 6 x 525 ft. Strips of Sachets	\$600.00

Overnight Shipping Required

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 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



PRO-TIP: Utilize Beneficial Nematodes Above Ground For Additional Thrips Control

The 1st and 2nd instar of the thrips lifecycle live above ground before moving to the roots as larvae to pupate. When using Beneficial Nematodes to kill thrips larvae, consider spraying them onto the foliage for additional control. Be sure to cover the underside of leaves. See pages 15-17 for more information on Beneficial Nematodes.

MITE CONTROL

Mite Predator - *Amblyseius andersoni*

Great For Pre-Emergent Control Of Pest Mite Infestations!

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

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



Amblyseius andersoni

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.



Feltiella acarisuga

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
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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.



Neoseiulus (=Amblyseius) californicus

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

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

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

BULK SIZES:

1151214	≈1,000 in Blister Pack	\$20.00
1151213	≈2,000 Count	\$43.00
1151209	≈5,000 Count	\$65.50
1151210	≈10,000 Count (2 x 5,000)	\$106.00
1151212	≈25,000 Count	\$128.00
1151285	≈100,000 Count (4 x 25,000)	\$350.00

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

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

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

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

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

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



Neoseiulus
(=*Amblyseius*) *fallacis*

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

Overnight Shipping Required

Spider Mite Destroyer - *Stethorus punctillum*

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



Stethorus
punctillum

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
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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.



Phytoseiulus
persimilis

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/SCALE CONTROL

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.



Anagyrus 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

TARGET: Mealybugs, aphids, mites, thrips, whiteflies, and other soft-bodied insect pests.



Cryptolaemus montrouzieri

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!



Aphytis melinus

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!



Active Eye 60X Clip-On Phone Microscope
2000200 \$9.49

Active Eye Microscope 100X
2000205 \$19.95



Cryptolaemus montrouzieri

MOTH EGG/CATERPILLAR CONTROL

Moth Egg Parasites - *Trichogramma spp.*

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 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.

SUGGESTED USE (Depending upon level of infestation): Use ≈1 tab/3,000 sq. ft. Release at first flight of moths and every 7-10 days thereafter until infestation subsides. Place cards/tabs where moths are seen. DISPENSERS/ CAPSULES: 50,000-200,000/acre. Use preventatively where historically pests have been seen, or as early in the pest lifecycle as possible (eggs must be present).

Temperature: Minimum 50°F

Relative Humidity: Moderate



Trichogramma brassicae

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

CARDS:

1131910	≈10,000 (3 Tabs)	\$18.50
1131903	≈20,000 (6 Tabs)	\$20.00
1131911	≈100,000 - 1 Card (30 Tabs)	\$40.00
BULK EGGS:		
1131950	≈100,000	\$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; budworms, 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, orchards 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	≈100,000	\$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.

CONTROLLED RELEASE - DISPENSERS:

1131062	≈62,500 - 25 Dispensers	\$43.75
1131065	≈125,000 - 50 Dispensers	\$75.00

CONTROLLED RELEASE - 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*

For multiple pests and 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 ostriniae

Primarily for European Corn Borer.

CARDS:

1130100	≈8,000	\$22.00
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BULK EGGS:

1130155	≈1,000,000	\$225.00
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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.

NemAttack™ Beads

Encapsulated Beneficial Nematodes



NEW!

**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
- Caterpillars
- Fungus Gnats
- Flea Beetles
- Thrips
- Weevils & More!



Beneficial Nematodes are live, microscopic organisms (non-segmented roundworms) that occur naturally in soil throughout the world. They are parasitic to insect pests that typically have a developing (larval or pupal) stage of life in the soil.

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 kill 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 there 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 feltiae* (Sf)

● = NemAttack *Steinernema carpocapsae* (Sc)

SINGLE SPECIES		
SKU	Size	Price
█ NemAttack Beads <i>Steinernema feltiae</i>		
5001005	≈5 million	\$36.00
5001010	≈10 million	\$42.95
5001020	≈20 million	\$57.20
5001040	≈40 million	\$86.00
● NemAttack Beads <i>Steinernema carpocapsae</i>		
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 subsides.

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

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

When Will I See Results?

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

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

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

BENEFICIAL NEMATODES

NemaSeek™ *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!



NemAttack™ *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, sclerids, shore flies, thrips and more!



NemAttack™ *Steinernema carpocapse* (Sc) Beneficial Nematodes

These nematodes are known to wait for passing pests. NemAttack *S. carpocapse* is most effective against mobile pests such as fleas, cutworm, fly larvae, termites 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™ *Steinernema riobrave* (Sr) Beneficial Nematodes

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



NemaSeek™ *Steinernema kraussei* (Sk) Beneficial Nematodes

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



NEMATODE SELECTION CHART – Choose Variety By Pest

Pest	Variety	Pest	Variety	Pest	Variety	Pest	Variety
Ants (Queen)	▲	Colorado Potato Beetle	▲	Greater Wax Moth	★	Root Weevils	▲ □
Armyworm	● ★	Corn Earworm	● □ ★	Grubs	▲ □	Scarabs	▲
Artichoke Plume Moth	●	Corn Rootworm	▲	Humpbacked Flies	□	Sclerids	□
Asparagus Beetle	▲	Cotton Bollworm	●	Indian Meal Moth	★	Shore Flies	□
Bagworm	▲	Cranberry Girdler	●	Iris Borer	▲	Small Hive Beetle	★ □
Banana Moth	▲	Cranberry Root Weevil	▲	Japanese Beetle	▲ ★	Sod Webworm	●
Banana Weevil	▲	Crane Flies	□	Large Pine Weevil	●	Strawberry Root Weevil	● □ ★
Beet Armyworm	● □	Cucumber Beetle	● □ ▲	Leafminers	● □	Sugarcane Stalk Borer	▲
Berry Root Weevil	▲	Cutworm	●	May/June Beetles	▲ ★	Sweet Potato Weevil	□ ▲
Billbug	▲	Diaprepes Root Weevils	★	Mint Flea Beetle	●	Termites (Subterranean)	□ ★
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	●
Chafers (European, masked)	▲ ★	Fungus Gnats	□ ▲ □	Raspberry Crown Borer	□	Western Flower Thrips	□ □
Citrus Root Weevil	▲ ★	Gall Midges	▲	Red Flower Beetle	★	Wireworm	●
Codling Moth	● □	Grape Root Borers	▲	Root Maggots	□	Wood Borers	●



Beneficial Nematodes

= NemaSeek™ *Heterorhabditis bacteriophora* (Hb)

= NemAttack™ *Steinernema feltiae* (Sf)

= NemAttack™ *Steinernema carpocapsae* (Sc)

= NemAttack™ *Steinernema riobrave* (Sr)

= NemaSeek™ *Steinernema kraussei* (Sk)

= NemaSeek™ *Heterorhabditis indica* (Hi)

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

COMBO PACKS		
SKU	Size	Price
NemaSeek Hb & NemAttack Sc		
1220331	≈10 mil. per species	\$60.00
1220332	≈50 mil. per species	\$125.00
1221699	≈250 mil. per species	\$340.00
1220335	≈500 mil. per species	\$500.00
NemaSeek Hb & NemAttack Sf		
1220333	≈10 mil. per species	\$60.00
1220334	≈50 mil. per species	\$125.00
1221700	≈250 mil. per species	\$340.00
1220336	≈500 mil. per species	\$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**.



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

OMRI Listed Beneficial Nematodes



OMRI LISTED SINGLE SPECIES		
SKU	Size	Price
NemaSeek Pro Hb Beneficial Nematodes		
4004010	≈10 million	\$52.00
4004050	≈50 million	\$90.00
4004250	≈250 million	\$250.00
4004500	≈500 million	\$325.00
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		
4005010	≈10 million	\$52.00
4005050	≈50 million	\$90.00
4005250	≈250 million	\$250.00
4005500	≈500 million	\$325.00

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

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

POLLINATION

Heterorhabditis indica

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



1220200 *Heterorhabditis indica* - 5 million **\$36.00**

*Free shipping in the contiguous 48 United States. 2nd day shipping required.

Natupol Bumblebee Hives

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

TARGET: For use indoors in greenhouses, hoop houses and other indoor growing, as well as smaller gardens and orchards.



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

SUGGESTED USE:

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

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

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

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

1530111 Natupol Excel **\$250.00**
1530112 Natupol Excel Startup **\$160.00**

UPS Next Day Shipping Required

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

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



Bee-Scent™

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

TARGET: Honeybees.

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



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

1231200 Bee-Scent - 4 oz. **\$10.50**
1231202 Bee-Scent - 8 oz. **\$12.50**
1231204 Bee-Scent - 16 oz. **\$20.50**

Case sizes available.



Enoz® BioCare® Ladybug Lures

An Ingenious Clip-On Lure.

1281607 Enoz BioCare Ladybug Lures - 4 Pack **\$5.99**

Honey Bee Magnet

Increase The Number Of Pollinators Coming To Your Area.

1231317 Honey Bee Magnet - 2 Lures **\$8.00**
1231318 Honey Bee Magnet - 10 Lures **\$24.00**

Predalure™

Attract Ladybugs, Green Lacewings & Many Other Beneficial Insects Into Your Garden.

1231319 Predalure - 2 Pack Lures **\$10.00**
1231320 Predalure - 10 Lures **\$41.00**
1231321 Predalure - 25 Lures **\$85.00**



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 Supremeley 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

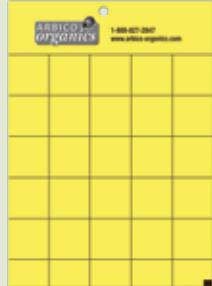
ARBICO Organics® Yellow Insect Traps

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.

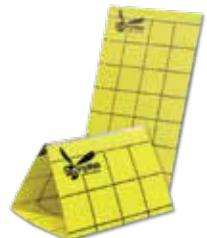
- For trapping in the greenhouse or garden, use roughly one trap per 10-25 square feet.
- For monitoring, use roughly 4-6 traps per acre.

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

FlyWeb® Insect Monitor Cards

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

TARGET: Aphids, Whiteflies & Fungus Gnats.



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

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



1254006	Insect Monitor Card - Yellow/Yellow - 10 Pack	\$11.00
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PEST INSECT TRAPS

Olson Garden Guard Yellow Sticky™ 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 Sticky 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 Sticky Ribbon - 2" x 100 ft. **\$12.50**



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

*Larger quantities available.

Pest Wizard Blue-Yellow Card Trap

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

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

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



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

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

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

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

Blue Adhesive Roll Trap



An Easy-To-Use Blue Sticky Ribbon Roll For Thrips and Leafminers Control.

TARGET: *Frankliniella* species of thrips (including western flower thrips) and bean thrips (*Caliothrips fasciatus*). Leafminers, including spinach leafminers (*Pegomya hyoscyami*).

DESCRIPTION: This sticky roll trap is a perfect choice to control thrips and leafminers in a large growing area. This particular hue of blue is a strong visual attractant for these pests, but you will catch other insects as well. Place waist-high or so around perimeter to catch flying insects or stretched out along the ground to catch crawling insects. Has adhesive on both sides.



SUGGESTED USE: Can be used with or without lures. For best results, apply as a preventative treatment when beginning to plant. Apply the roll throughout the crop. Leave in place until the trapping surface is fully covered insects or debris. For infected crops: Apply the roll in areas where the pest population is greatest. There is a low risk to beneficials with this product, but every effort should still be taken to reduce the risk to beneficials and other desirable species.

1254410	4" W x 328' L (10cm x 100m)	\$70.50
1254411	7.9" W x 328' L (20cm x 100m)	\$110.00
1254412	11.8" W x 328' L (30cm x 100m)	\$152.00

Trapline t+ Sticky Roller Trap



Attracts Thrips 3 Ways – By Color And Patterning & With A Pheromone.

TARGET: Western Flower Thrips on soft fruits, vegetables and flowers.

DESCRIPTION: This is a sticky trap in ribbon form. The vivid blue of this trap is highly attractive to thrips and this trap has a specific patterning that optimizes the trapping of Western Flower Thrips. But what really makes this trap stand out is that its glue is infused with a pheromone lure. This trap is intended only for use in greenhouses. Microencapsulated pheromone provides a steady release for up to 5 weeks. The glue can last 10-12 weeks without drying out.



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.

1254425 Trapline t+ Sticky Roller Trap - 6" W x 328' L (2 Pack) \$125.00

ARBICO Organics® Blue Insect Traps

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



TARGET: Thrips, leafminers.

DESCRIPTION: ARBICO Organics Blue Pest Traps are 5" x 7" gridded adhesive traps that are the perfect shade of blue to make them irresistible to Thrips and Leafminers. The color lures them in and the sticky surface holds them tight. These traps have adhesive on both sides to grab insects no matter which direction they're coming from. If you are monitoring, the gridded surface and bright color allow for easy identification and counting. When used in conjunction with the ARBICO Organics Yellow Sticky Traps, you will have the right colors to attract most common insect pests. There is a very low risk to beneficials, but some may become caught by accident.

SUGGESTED USE: For use indoors and outdoors to trap and monitor insect pests. Traps may be hung virtually anywhere, placed on the ground or anchored to a stake (not included). If hung, traps should be slightly above the plant canopy. Avoid hanging too close to sprinklers.

- For trapping in the greenhouse or garden, use roughly one trap per 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

Maximize pest attraction/trapping with pheromone lures or attractants.

Available Online
www.arbico-organics.com

GRUB & BEETLE CONTROL

BIOLOGICAL GRUB CONTROL

NemaSeek™ Hb Beneficial Nematodes

Beneficial Nematodes are one of nature's most powerful weapons available for managing Japanese Beetle infestations. Along with parasitizing the beetles in their larval, underground damaging stages, they also parasitize the larval states of other pest grubs, weevils, fleas, leafminers and more. Apply with a watering can, hose end sprayer or backpack sprayer. See pages 15-17 for more information.



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 29 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 31 for more information.

BotaniGard® MAXX

Beauveria bassiana & Pyrethrins Make A Powerful Team!

1341030 BotaniGard Maxx - Quart \$115.00
See page 31 for more information.

JAPANESE BEETLE CONTROL

Milky Spore Powder

Specific, Long Lasting Larval Control.

TARGET: Japanese beetle grubs.

DESCRIPTION: Contains *Bacillus popilliae* bacterium, lethal to soil-borne grub stages of Japanese beetles. Grubs that normally feed on roots of grass and vegetables will ingest the bacterium, which will cause death in about 1-3 weeks. As grubs decompose they re-release bacteria spores. The spores can remain in the soil for about ten years, and in some cases up to 20 years. In warmer climates, control can occur in 1-3 years (after one application) and in cooler climates, 3-5 years. Can apply with other fertilizers, will not harm animals and can be applied to food crops. For best results, apply with NemaSeek Hb Beneficial Nematodes (see pages 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 ≈2,500 sq. ft., 40 oz. covers ≈1/4 acre, 50 lbs. covers ≈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.

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 28 for more information.

PyGanic® Gardening

Rapid Knockdown & Kill For Outdoor Pests In Your Garden.

1288710 PyGanic Gardening - 8 oz. \$25.20
See page 31 for more information.

Molt-X®

An excellent spray with multiple modes of insecticidal action.

1332771 Molt-X - Quart \$215.00

BONIDE® Captain Jack's™ Slug Magic

An Irresistible Bait That Will Bring Slugs & Snails Out Of Hiding.

TARGET: Slugs & snails.

DESCRIPTION: This pelletized product is made from a blend of iron phosphate and Ferramol™ Slug and Snail Bait that's irresistible to slimy garden pests. One bite and they will stop feeding and die within 3-6 days. Any product not ingested will harmlessly degrade into the soil. Use around the perimeter of gardens and in around the damp and dark places they hide in. Can be used in greenhouses. Safe for pets, wildlife and beneficials. 0-day PHI.



SUGGESTED USE: Apply in evenings as slugs & snails travel and feed in the dark. Can be scattered by hand or with standard broadcast and granular spreaders. Reapply as it is consumed or every 2 weeks; apply more frequently for heavy infestations or if the ground becomes water-logged. 1 lb. treats 1,000 sq. ft.

1271101	BONIDE Captain Jack's Slug Magic - 1 lb.	\$10.98
1271103	BONIDE Captain Jack's Slug Magic - 1.5 lbs.	\$14.98
1271102	BONIDE Captain Jack's Slug Magic - 3 lbs.	\$24.48

Sluggo®

Gets Rid Of Slugs & Snails, But Will Not Harm Pets, Wildlife Or Beneficials.

TARGET: A wide variety of snails and slugs.

DESCRIPTION: Made from a biodegradable wheat gluten attractant and iron phosphate, this OMRI listed product will help control snails and slugs. Once consumed by the pest, it interferes with calcium metabolism which inhibits feeding and causes death in about 3-6 days. Any bait not ingested will degrade harmlessly into the soil.



SUGGESTED USE: Use 1/2-1 lb/1000 sq. ft. or 20-40 lbs/acre. Scatter on lawn and around any plants to be protected. Most effective when used in the spring when the first leaves appear. Apply to soil that's moist with little or no standing water. Can be applied with a standard broadcast or granular spreader. Apply every 2 weeks, reapply as the bait is consumed or if the area becomes water-logged. Do not place in piles.

1271109	Sluggo 2.5 lb. Jug	\$16.79
1271108	Sluggo 10 lb. Bottle	\$58.49
1271104	Sluggo 40 lb. Bag	\$145.99

Larger quantities available.

**Slug Zapper Fence®**

A Shockingly Effective Way To Control Slugs And Other Crawling Insects

TARGET: Slugs, caterpillars, and other crawling pests



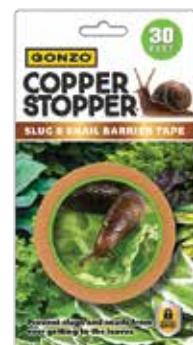
DESCRIPTION: The Slug Zapper Fence is a barrier that will deliver a low voltage electric jolt to any crawling pest that touches it. Pests will be stunned (not killed) and move on to less-disturbing areas to feed. It will not affect larger species like cats or dogs. Uses no poisons or baits. Battery NOT included—it requires a 6-volt lantern battery with screw-on terminal. Covers ~40 sq. ft. or 32 ft. length of fencing. Not harmful to children but use with caution due to the electrical charge.

SUGGESTED USE: Insert batteries; roll out fence and clamp into the ground every 2-3 ft; the end of the roll can be attached to wood or left on the ground; end can be secured with clamp. Excessive rain or snow can affect the conductors, so try to keep the area dry. Do not twist or pull the fence forcefully as it may damage the conductors and connections.

1272030	Slug Zapper Fence	\$36.99
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Gonzo® Copper Stopper™ Slug & Snail Barrier Tape

Creates A Shiny Copper Barrier That Gastropods Won't Cross.



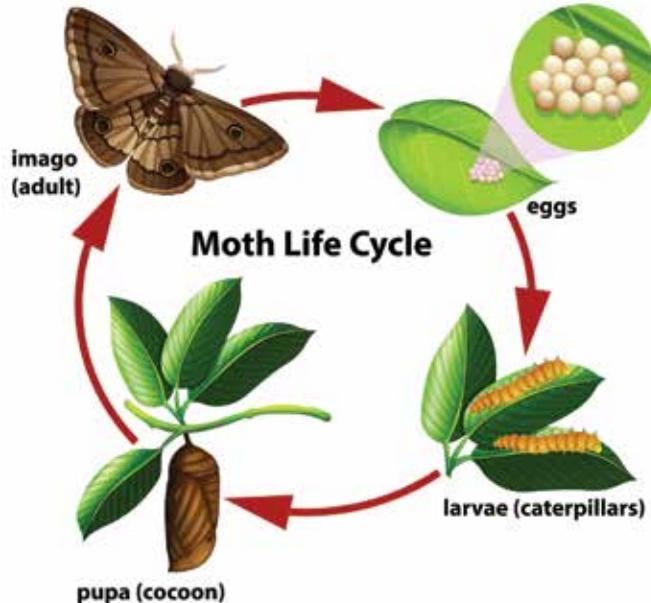
TARGET: Snails and slugs.

DESCRIPTION: This shiny tape is made of copper and creates a barrier to keep snails and slugs from your plants. Copper causes a distinctly unpleasant sensation for the gastropods as it reacts with their slime secretions. So much so, that they will soon be looking for their dinner elsewhere. Keep away from electricity when applying. Can be applied to greenhouse benches, raised flower beds, flower boxes, trees, vines, potted and container plants.

SUGGESTED USE: Tear off the paper backing and apply to clean, dry surfaces. Can be nailed to wood surfaces if desired. Don't leave gaps in the tape as the snails and slugs may find their way through unprotected openings. Don't allow plants or other objects to bridge the tape as pests may cross. Areas that have been enclosed by the barrier tape may inadvertently trap these pests. Hand removal or treatment of the enclosed area using baits may be necessary until the area is free of snails and slugs.

1271220	Slug & Snail Barrier Tape - 30 ft. Roll	\$11.99
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CATERPILLAR CONTROL



DiPel® Pro DF & DiPel® DF

OMRI Listed & WSDA Approved *Bacillus thuringiensis v kurstaki* (Btk) To Control Most Lepidoptera 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 ornamentals 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
1207004	DiPel DF - 5 lbs.	\$119.50

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 guidelines.

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



Fertilome® Dipel® Dust

It Takes Just One Bite Of This Dust To Make Leaf-Eating Worms Stop Feeding.



TARGET: Armyworms, budworms, diamondback moths, hornworms, leafrollers, loopers, spongy moths (previously known as spongy moths), tent caterpillars, webworms and more.

DESCRIPTION: This is a biological insecticide powered by the bacterium *Bacillus thuringiensis kurstaki* (Btk). Btk targets pests in the Lepidoptera order and poses no threat to any animal or insect outside that order. When a caterpillar ingests treated foliage, the Btk releases a type of endotoxin which paralyzes the caterpillar's digestive tract. The caterpillar will stop feeding and die a short time later. Use on vegetables, shrubs, lawns and flowers.

SUGGESTED USE: Use at the beginning of the pest's life cycle (1st and 2nd instars). Dust thoroughly to cover all plant surfaces. Vegetables: loopers and webworms: 1/4-1 oz; armyworms: 1-2 oz; diamondback moths: 1/4-1/2 oz. Turf: Sod webworms: 2-4 oz. Call or refer to the manufacturer's label online for more detailed crop and pest-specific applications.

1207010	Fertilome Dipel Dust - 1 lb. Puffer	\$7.99
1207011	Fertilome Dipel Dust - 4 lb. Bag	\$8.99

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

For moth egg control see page 13.

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

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: 1 3/4" 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
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ADULT MOTH CONTROL



Large Plastic Delta Trap

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

1230435	Large Plastic Delta Trap - Pack of 5	\$40.00
1230436	Large Plastic Delta Trap - Pack of 10	\$75.00

Scentry Wing Trap

You'll Get Options & Economy With This Trap!

1230440	Scentry Wing Trap - Pack of 5	\$20.00
1230441	Scentry Wing Trap - Pack of 10	\$37.50

Delta Trap

Catch Those Pests With Ease!

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

Moth Pests Disappear With This "Milk Carton" Trap!

1230430	Moth Trap - Pack of 5	\$11.00
1230431	Moth Trap - Pack of 10	\$20.00

See full line of pest specific Scentry lures online.
Visit www.arbico-organics.com.



INSECTICIDES

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



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

PureCrop1

Plant-Based Biostimulant, Insecticide & Fungicide.

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

DESCRIPTION: PureCrop1 uses advanced biochemistry to eliminate pests, mold and mildew, while increasing plant health. Although it's active ingredients are corn and soybean oil, it is in fact NOT an oil. Through the use of Nanotechnology, it is a rearrangement of molecules to create a colloidal micelle. Due to its small size and electrical properties, PureCrop1 is a natural surfactant, carrier of nutrients and increases sugar levels. When applied as a foliar spray or root drench, it leaves no residue behind and tests clean parts per billion. This product can be used on all stages of growth even up to day of harvest.



SUGGESTED USE: As a preventative foliar spray, 1 oz. per 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.

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 synergistic blend of botanical oils and a surfactant that works as an insecticide, fungicide and miticide. It is suitable for use wherever you are growing-indoors, outdoors, greenhouses or hydroponics. When used as directed, safe for use in veg and flower. Leaves no pollutants on plants or in the soil and there's no reported phytotoxicity. Use weekly-there's no limit to the number of applications per growing cycle. 0-day PHI & 0-hr. REI.

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

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 common mite species and eliminates mold and mildews on plants. Lab and field tested and poses no threat to honeybees. Use alone or in rotation with other miticides. Approved for use on cannabis in Colorado. Ideal for IPM programs. Can be used on coffee, cucurbits, hemp, hops, ornamentals and nursery stock, pome fruit, soybeans, stone fruit and strawberries.

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

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

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



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	\$11.46
1150055	Organocide 3-in-1 Garden Spray - 16 oz. Conc.	\$14.04
1150056	Organocide 3-in-1 Garden Spray - 32 oz. Conc.	\$20.25
1150058	Organocide 3-in-1 Garden Spray - Hose-End 32 oz.	\$27.14
1150059	Organocide 3-in-1 Garden Spray - Gallon Conc.	\$73.40

SuffOil-X®



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



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

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

SUGGESTED USE: Can be used with a wide variety of crops indoors or outdoors. Apply when oil will dry and evaporate in 1-2 hours and when relative humidity is less than 90%. Application rates are generally 1-2 gallons of SuffOil-X per 100 gallons of water or 20-500 gallons of spray solution per acre.

1332805	SuffOil-X - 2.5 Gallons	\$87.00
1332806	SuffOil-X - Case of 2 ct./2.5 Gals.	\$156.00

Larger sizes available.

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

INSECTICIDES

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 outright, it will only inhibit further develop so it is crucial to treat the area ahead of a severe infestation. Kills the eggs, larvae & adults.

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



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.

ECOWORKS EC®



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

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

DESCRIPTION: Derived from 100% cold-pressed neem oil, ECOWORKS EC contains Azadirachtins, neem limonoids, 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.	\$9.86
1450553	EcoWorks EC - 16 oz.	\$25.99
1450554	EcoWorks EC - 32 oz	\$43.99

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

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.

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

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

1555615	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 multiply until they reach its hemolymph (blood). When the spores encounter the blood they will begin feeding on it. Death will occur in 7 to 14 days. 0 pre-harvest interval and 4-hour REI.

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

1332890	BioCeres WP - 1 lb. Bag	\$90.00
1332895	BioCeres WP - CA Version - 1 lb. Bag	\$90.00

Case sizes available.

SKU 1332890 cannot be shipped to the following states: AK, 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, 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

Ships via UPS Ground & FedEx Ground ONLY.



Beauveria bassiana

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

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

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



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

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 quart 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
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Case sizes available.

Shipping Restrictions: Cannot ship via US Mail.

INSECTICIDES

BIORATIONAL

Grandevø® CG & Grandevø® 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: Grandevø uses the bacterium *Chromobacterium subtsugae* strain PRAA4-1^T to provide long-lasting, reliable broad spectrum control of a long list of labeled pests. Its mode of action is multi-faceted; it is toxic when ingested, it repels and it reduces insect reproduction. This OMRI listed and NOP compliant organic pesticide/miticide can be a valuable part of any IPM program. Can be used on a wide range of edible crops in field and greenhouse applications.

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

1332953	Grandevø CG - 1 lb.	\$40.00
1332954	Grandevø CG - 4 lbs.	\$140.00
1332952	Grandevø WDG - 6 lbs.	\$162.00



PFR-97™ 20% WDG

Directed Fungal Growth Is The Key To This Remarkable Insecticide.

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

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

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

1332870	PFR-97 20% WDG - 5 lbs.	\$235.00
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Cannot be shipped to the following states: AK, AL, AR, IA, UT



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

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

AZADIRACHTIN

AzaSol™

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

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

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

SUGGESTED USE: Apply as a foliar spray or soil drench to soil or 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	AzaSol - .25 oz.	\$19.99
1457621	AzaSol - .75 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



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 quick knock-down of insect and mite pests. The two active ingredients, *Beauveria bassiana* and Pyrethrins, work independently, yet in harmony, to provide multiple mechanisms to kill harmful insects. The pyrethrins will attack the nerve cells of the insect and the *Beauveria bassiana* strain GHA fungal spores penetrate an insect's protective cuticle and destroy it from within.

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

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

Case sizes available.

AzaGuard®

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

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

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

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

1222204	AzaGuard - 32 oz.	\$275.00
1222206	AzaGuard - Gallon	\$1000.00

FLY ELIMINATORS



WHAT ARE FLY ELIMINATORS?

The Sensible Alternative To Pesticides

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

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

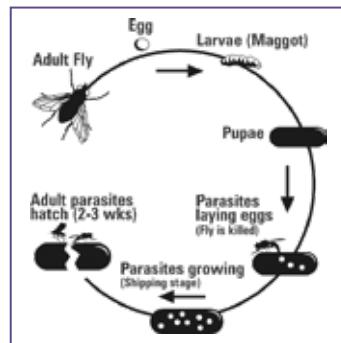


Adult Fly Eliminator emerging from fly pupa.

HOW DO FLY ELIMINATORS WORK?

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

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



Life cycle of the fly parasite.

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

Philadelphia Park Recommends ARBICO's Fly Eliminators

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

– Roy Smith, Former Track Manager of Philadelphia Park



WHO USES FLY ELIMINATORS?

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

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

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



HOW DO I USE FLY ELIMINATORS?

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

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



Fly Eliminators and wood shavings in packaging.



Use Your Fly Eliminators the RIGHT Way:

RIGHT Time

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

RIGHT Place

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

RIGHT Amount

- The more Fly Eliminators, the fewer the flies

RIGHT Schedule

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

Churchill Downs Chooses ARBICO Organics

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

– Butch Lehr, Former Track Manager of Churchill Downs



CHURCHILL DOWNS

Del Mar Thoroughbred Club Relies On ARBICO Organics

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

– Joe Harper, Chief Executive Officer of Del Mar



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 - ≈50 million	\$72.00

*See page 17 for free shipping details.



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

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
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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 Terminator 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	\$12.99
1256052	Terminator Pro Fly Trap	\$28.99
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



•FREE SHIPPING

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 parts 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**

ADULT FLY SPRAYS & REPELLENTS

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, Pyrethrins 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

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, pyrethrins, alcohol or DEET.



SUGGESTED USE: Apply directly to animals or use as a barrier treatment around pet bedding, horse stalls, chicken coops and other areas that pets frequent. Hold bottle 8-10" away and apply a light mist, massage into coat or feathers. On cats, spray only between the shoulders. On horses, apply down legs to the hooves, flanks and topline. Spray onto a soft cloth or hands to apply to an animal's face and ears. Reapply as needed.

1107570	Dr. Earth Final Stop Pet Spray - 24 oz. RTU	\$12.99
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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	\$24.50
1107552	Ecovet Fly Repellent - Gallon Refill	\$132.00

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

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	\$24.90

Mosquito Dunks®

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

TARGET: Mosquitoe larvae.

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



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

1211101	Mosquito Dunks - 6 Pack	\$13.95
1211103	Mosquito Dunks - 20 Pack	\$22.95
1211139	Mosquito Bits & Dunks Combo Kit	\$24.90

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*** \$187.00

*Free Shipping on 40 lb. bag only, in the contiguous 48 states.

Ships via Ground ONLY. Call for pallet pricing.



AQUABAC® Xt

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

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

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



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

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

Cannot be shipped to the following states: NY

MOSQUITO & FUNGUS GNAT CONTROL

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: Twenty species of mosquito and midge larvae, pupae and nymphs, including *Aedes Anopheles* and *Culex*.

DESCRIPTION: This organic product uses botanical oils (garlic & soybean) plus beneficial nematodes (*Heterorhabditis megidis*) for quick and complete control of targeted insects. The oils kill on contact and will take care of pupae and nymphs, while the nematodes go after the larvae. The nematodes will enter and kill the larvae and then use them as a food source, which keeps SKEETER effective for 30 days. 80% kill in 24 hours, 98% kill in 48 hours. 0-hr REI.



SUGGESTED USE: For best results, use at the beginning of mosquito infestation. Apply with aerial sprayers, misters and backpack sprayers. Apply to turf, foliage, stagnant and/or standing water and the areas around it like the banks of streams/ponds, the ground around ditches and in the brush along pathways. These oils can be dangerous to other insects; avoid application to natural predators like dragonflies. 1-2 gal/500 gal water. May also be used at the dilution rate of 1:1,000 of product to water.

1211400	SKEETER - 1/2 Gallon (64 oz.)	\$100.00
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Cannot be shipped to the following states: AK, AL, CT, DC, IA, ID, IN, KY, MD, ME, MI, MS, MT, NV, OR, RI, TN, VA, VT, WI

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. 0-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: 1 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

For Personal Mosquito Repellents & Mosquito Traps, See Page 61.



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

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

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

ARBICO Organics® Earthworms - *Eisenia fetida*

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



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

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

1308003	ARBICO Organics Earthworms (~1,000)	\$45.00
Subject to seasonal availability.		

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

SUGGESTED USE: Mix into potting soil at the rate of 3%-5% by volume. Top-dress around pots beds, shrubs, trees or rows at a rate of 1/4"-1/2" every 2-4 mos. Incorporate into the top several inches of pots or beds prior to planting or mulching. Repeat when transplanting to reduce shock. Apply onto turf and rake in for lush, green grass.

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

MYCORRHIZAE

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. Ecto Spores: 1×10^6 spores/gr.



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

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

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

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

E-Z Root®



At Last! An Organic Rooting Compound Without Hormones.

DESCRIPTION: This microbial-based product triggers root growth and sustains healthy roots in cuttings and transplants. Contains multiple strains of active beneficial bacteria, and a 0-0.5-0.5 fertilizer to gently provide power to drive energetic root activity. Contains living bacteria and the use of pesticides, nematicides, fungicides, herbicides, insecticides or fumigants can damage the integrity of, or outright kill, the bacteria. If you must use these products, never apply EZ-Root directly before an application. Instead, apply EZ-Root in a rotation that allows 5-7 days between the applications of EZ-Root and other agents. Can be used as a dip, drench in soils, in greenhouse applications, in soil and soil-less media, as an additive in hydroponics, and in deep root feed in injections.



SUGGESTED USE: On unrooted cuttings, coat the entire cut in a small amount of powder and plant the cutting in soil or soil-less media. When planting, apply directly to the soil. For plants up to 8", use 1/2 scoop per planting hole. When transplanting, use 1/2 to 3 scoops depending on pot size. Soil-less media, use 1-2 scoops/16-32 oz. water. Hydroponics, use 1 scoop/5 gal. water per nutrient change. Drench, use biweekly - 1/2 scoop/gal. water & 5 gal. pot/1 qt. solution.

1202210	E-Z Root - 2 oz.	\$7.99
1202211	E-Z Root - 8 oz.	\$25.99

Great White® Premium Mycorrhizae

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

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: CT, HI, IL, OK, PR

Mikro-Myco

A Heady Combination Of Mycorrhizae, Rhizobacteria & Beneficial Fungi.



DESCRIPTION: Mikro-Myco contains a combination of endo and ectomycorrhiza, phosphate solubilizing fungi (PSF) and plant growth promoting bacteria (PGPB). Together, the mycorrhizae and supplemental microbes work to develop the ultimate interchange between roots, soil, and plants. It will encourage root growth, but also provide fungal hyphae in the root zone to help move nutrients up into the soil. The beneficial fungi in this blend are able to release fixed phosphorus and provide support for the plant to fight off pathogens and overcome stressors, allowing the plant to put its energy into maximizing growth and fruit/flower output.

SUGGESTED USE: Water Suspension: 1 tsp/1 gal distilled or tap water and drench the root area. Dry Application: 1 tsp-1 Tbsp. to root system while planting/transplanting. Powder must come in direct contact with the roots.

1202510	Mikro-Myco - 2 oz. Pouch	\$10.99
1202511	Mikro-Myco - 4 oz. Pouch	\$19.99
1202512	Mikro-Myco - 5 lb. Pail	\$279.00
1202513	Mikro-Myco - 30 lb. Pail	\$1,399.00

Cannot be shipped to the following states: AL, CA, CO, ID, IA, KS, LA, ME, MD, MN, MO, NE, ND, OH, OR, SC, SD, WY

Armory® SP

A Blend Of Beneficial Bacteria That Provides Multiple Plant Promoting Benefits.

DESCRIPTION: Each of the four *Bacillus* and *Streptomyces* species in this 100% water soluble organic powder bring their own assets to the table, and in combination with the others they work synergistically to achieve maximum performance in promoting plant health. Also provides a steady food source for the microbes so they can continue to flourish in your soil (or soilless media) throughout the life of your plants. Solubilizes phosphorus and makes iron and manganese more available. Breaks down cellulose and lignin and enhances nutrient cycling. Leaves no residue and is not phytotoxic. Compatible with fungicides, insecticides, fertilizers and biological stimulants **but avoid mixing with** copper sulfate pentahydrate, sulfur and hydrogen peroxide type products.

SUGGESTED USE: Residential Use or Reservoir Application: 0.25-1 tsp/gal water. Greenhouse/Nursery: 1-8 oz/100 gals water. Soil Incorporation: 1-2 oz/cu yd soil/media. Outdoor Soil or Foliar: 1-6 oz/acre. In-furrow: 0.5-6 oz/acre. Hydroponics: 1-6 oz/100 gals tank water. Bed, Field or Row Prep: 1-4 oz/acre. Post Fumigation Soil Application: 4-16 oz/acre through irrigation directly to the area fumigated.

1202165

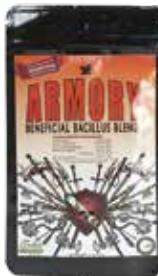
Armory SP - 2 oz.

\$34.99

1202166

Armory SP - 1 lb.

\$165.45



Earth Alive™ Soil Activator™

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

DESCRIPTION: This OMRI listed soil inoculant is a patent-pending mix of three naturally occurring soil microorganisms and an all-natural wood extract (a forestry by-product). The beneficial bacteria in Soil Activator solubilize phosphorus and fix atmospheric nitrogen for improved nutrient availability to plants and increased yields. They also encourage active root growth for robust plants from the root up. Can be used as a dry mix soil or as a soil drench.



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

1202170	Earth Alive Soil Activator - 1.76 oz.	\$4.29
1202171	Earth Alive Soil Activator - 15 oz.	\$19.99
1202172	Earth Alive Soil Activator - 2.2 lbs.	\$36.99

Cannot be shipped to the following states: AL, AR, CT, HI, KS, LA, MD, SD, UT, WV

EM•1® Microbial Inoculant

Faster Breakdown Of Organic Matter.

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

\$37.00

1202102

EM•1 Microbial Inoculant - Gallon

\$79.70

1202103

EM•1 Microbial Inoculant - 5 Gallons

\$311.85



Terragrow® Liquid, 3-0-2

A Combination Of *Bacillus* & NPK That Optimizes Plant Health



DESCRIPTION: This is a specialty blend of five *Bacillus* species, an inert microbial food, protein hydrolysate and kelp extract. It will establish beneficial microbes in the rhizosphere, improve nutrient availability, spur root and plant growth, strengthen abiotic stress tolerance and encourage optimal flowering and high-quality fruit. Contains *Bacillus licheniformis*, *Bacillus subtilis*, *Bacillus pumilus*, *Bacillus amyloliquefaciens* and *Bacillus megaterium*.

SUGGESTED USE: Foliar sprays, direct inject/chemigation, in-furrow, soil and soilless drench, cutting and root dip, hydroponics, turf and seed treatment. Cutting/root dips: 0.5-1 fl oz/10 gals water. Foliar spray in-field outdoors: 15-20 fl oz/acre. Foliar spray greenhouses: 0.3-0.5 fl oz/1,000 sq ft. In-furrow: 13 fl oz/acre. Soilless media: 1-3 fl oz/1,000 sq ft. Seed treatment: Inoculate prior to planting. 0.2-0.4 fl oz/100 lbs of seed.

1222715	TerraGrow Liquid - Gallon	\$225.00
1222716	TerraGrow Liquid - 2.4 gallons	\$537.50

Cannot be shipped to the following states: AK, CA, HI, PR, DC, IL, VA

Call for larger sizes.

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

FEATURED FERTILIZERS

Maxicrop

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



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.	\$70.00
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, desalinated 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 ≈3,000 sq. ft.; 2,200 lbs. treats ≈3 acres.

1314801	Maxicrop Kelp Meal - 5 lbs.	\$18.00
1314804	Maxicrop Kelp Meal - 55 lbs.	\$107.00



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 buildup.



SUGGESTED USE: Foliar Feeding: ½ 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

AgroThrive™ Fruiting & Flowering Fertilizer, 3-3-5



Multiple Organic Accreditations For One Exceptional Fertilizer.

TARGET: Gardeners looking for balanced organic nutrition for fruiting and flowering plants.

DESCRIPTION: Designed to nurture vegetables, fruit and flower-bearing plants, this premium organic formulation will not only feed your plants the nutrients they crave, it will enhance soil microbial activity by activating indigenous micro-flora in the soil. This healthy soil activity will create a smooth release for, and improved availability of, the nutrients (70% fast release, 30% slow release). You will see faster growth of vibrant blooms and higher yields of flavorful crops in no time. Derived from fish inedibles, grain, and sulfate of potash and sourced from repurposed organic material. OMRI, CDFA, USDA and WSDA listed/certified organic.

SUGGESTED USE: Mature Plant Application: Mix ½ cup of product with 1 gallon of water to cover 35 sq. ft. of garden and apply every 2 weeks. Nursery & Foliar Applications: Mix 3 Tbsp of product with 1 gallon of water to cover 150 sq. ft. and apply weekly.

1314750	AgroThrive Fruiting & Flowering Fertilizer - 32 oz.	\$20.99
1314752	AgroThrive Fruiting & Flowering Fertilizer - Gallon	\$34.49

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.



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.



Neptune's Harvest Liquid Crab & Lobster Shell, 2-0-2

Nutrient Rich Plant Food Derived From Crab & Lobster Shell Meal



TARGET: Flowers, vegetables, fruits, containers/raised beds, houseplants, clones, transplants & lawns.

DESCRIPTION: Made by using micronization to grind Neptune's Harvest Crab & Lobster into an extremely fine powder. This powder is then stabilized in a liquid carbon base and bottled up. The final result is a drip line and sprayer friendly product that typically stays in suspension for 30+ minutes.

SUGGESTED USE: Flowers/vegetables: 1 oz/gal water foliarly every 2 weeks. Once flowers or buds appear, soil drench only. Lawn & Turf: 1 qt/2,000 sq. ft. Apply once a month spring-fall. Fruit: 1 oz/gal water every 1-2 weeks. Containers/raised beds: 1 oz/gal water every 1-2 weeks. Houseplants: 1 Tbsp/gal water every week. Clones/transplants: Dip roots in solution of 1 oz/gal water for 5 seconds before planting. Use 1 oz/gal water every 3 days until well established.

1315020	Liquid Crab & Lobster Shell - Pint	\$19.49
1315021	Liquid Crab & Lobster Shell - Quart	\$26.99
1315022	Liquid Crab & Lobster Shell - Gallon	\$71.29
1315023	Liquid Crab & Lobster Shell - 5 Gallons	\$250.19

Neptune's Harvest Crab & Lobster Shell, 5-3-0

An Excellent Alternative To Bone Meal If You Are Looking For A Calcium Additive.



TARGET: Gardens, field applications, row crops, orchards, compost, turf, potting mixes, seedbeds, bedding plants, bulbs and fertilizer mix.

DESCRIPTION: This is a superior dry fertilizer for all your growing needs. It has an NPK of 5-3-0, but also contains calcium (17%) and magnesium (1%). This slow release fertilizer is high in chitin and will promote the growth of beneficial organisms in the soil that help deter plant parasitic nematodes. The high calcium content of NH Crab and Lobster Shell reduces the effects of fungal diseases such as blossom end rot and helps plants develop healthy, strong cells. Works well with kelp meal fertilizers. High calcium fertilizers are great for bulbs and flowers.

SUGGESTED USE: Can be worked into the soil, scratched into topsoil or placed around plants. Apply in early spring as soon as soil can be worked. For perennial crops, apply at the end of dormancy. Mix thoroughly with the soil or growing media. Do not apply in concentrated form directly to the roots. For trees and turf, apply directly as a top dressing. Please call for crop-specific application rates and/or mixing rates.

1315004	Crab & Lobster Shell - 4 lb. Bag	\$19.99
1315005	Crab & Lobster Shell - 12 lb. Bag	\$50.99
1315016	Crab & Lobster Shell - 44 lb. Bag	\$89.99

FERTILIZERS



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

DTE 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 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 Bat Guano, 7-3-1

High-Nitrogen Fertilizer From Bat Guano.

1300006	Down To Earth Bat Guano Mini - .25 lb.	\$5.99
1300007	Down To Earth Bat Guano - 2 lbs.	\$16.99
1300008	Down To Earth Bat Guano - 10 lbs.	\$57.99

DTE Bio-Fish, 7-7-2

Nitrogen & Phosphorus Rich For Robust Fruit & Blooms.

1300315	Down To Earth Bio-Fish - 5 lbs.	\$17.99
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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 Blood Meal, 12-0-0



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

1300300	Down To Earth Blood Meal Mini - .5 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 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
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DTE Citrus Mix, 6-3-3



The Nutrients You Need For Vibrant & Delectable Citrus!

1300295	Down To Earth Citrus Mix - 1 lb.	\$5.99
1300296	Down To Earth Citrus Mix - 5 lbs.	\$17.99

Larger sizes available - please go online or call.

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
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DTE Feather Meal, 12-0-0



Provides A Slow & Steady Source Of High Quality Nitrogen.

1300247	Down To Earth Feather Meal - 5 lbs.	\$19.99
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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 Granular Humic Acids



Highly Concentrated Source Of Humic Substances.

1300320	Down To Earth Granular Humic Acids - 1 lb.	\$5.49
1300321	Down To Earth Granular Humic Acids - 5 lbs.	\$12.99
1300322	Down To Earth Granular Humic Acids - 25 lbs.	\$39.99

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 Mini - .5 lb.	\$5.99
1300281	Down To Earth Kelp Meal - 5 lbs.	\$27.99

DTE Neem Seed Meal, 6-1-2



Another Outstanding Product From The Well-Loved Neem Tree.

1300267	Down To Earth Neem Seed Meal - 5 lbs.	\$24.79
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DTE Rose & Flower Mix, 4-8-4

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

1300233	Down To Earth Rose & Flower Mini - 1 lb.	\$5.99
1300231	Down To Earth Rose & Flower Mix - 5 lbs.	\$16.99



DTE Starter Mix, 3-3-3

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

1300264	Down To Earth Starter Mix - 1 lb.	\$5.99
1300265	Down To Earth Starter Mix - 5 lbs.	\$17.99

DTE Tree & Shrub, 4-2-4

Fertilizer + Mycorrhizae To Support Healthy Tree & Plant Growth.

1300250	Down To Earth Tree & Shrub - 5 lbs.	\$15.99
1300251	Down To Earth Tree & Shrub - 25 lbs.	\$56.29



DTE Vegan Mix, 3-2-2

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

1300237	Down To Earth Vegan Mix - 5 lbs.	\$17.99
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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.

TREE & ORCHARD CARE



Apple Maggot Trap Kit

The Perfect Kit For Backyard Fruit Trees Or A Small Orchard.

1239210	Apple Maggot Trap Kit - 1 Kit (Contains 25 apple spheres, 25 wire holders and 2 cans of 8 oz. brush-able adhesive.)	\$52.00
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Asian Citrus Psyllid (ACP) Detector

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

1254221	ACP Kit (1 Lure, 2 Traps, 2 Hangers)	\$9.99
1254220	ACP Detector - 4 Pack (4 Traps/4 Hangers)	\$10.99
1254222	ACP Lure - 2 Pack	\$8.99

Citrus Leaf Miner Trap & Lure

Citrus Leaf Miner Males Will Really Dig The Pheromone Lure In This Diamond Trap.

1254605	Citrus Leaf Miner Trap & Lure (2 Traps/2 Lures)	\$18.00
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Codling Moth & Oriental Fruit Moth Trap

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

1254600	Codling Moth & Oriental Fruit Moth Trap (2 Traps/2 Lures)	\$17.50
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Maggot Barriers

Thick Weave & Reinforced Seams For Greater Protection.

1403302	Maggot Barriers - Box of 100	\$13.50
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See full line of Scentry traps & pheromone lures online.



Dalen Tree Wrap

Protection From Weather & Insects.

1259650	3" x 50' Roll	\$4.18
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Holographic Scare Tape

Protect Your Trees & Fruit From Thieving Birds.

1269902	3/4" x 100' Roll	\$5.99
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Guard'N Eye: Reflective Hanging Disks

Ultraviolet Light For Scaring Birds.

1263010	4 Pack of 3 Hanging Disks	\$12.99
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IV Organic® 3-In-1 Plant Guard™

An Organic Pest Control Solution For Your Trees – Easy As 1-2-3!

TARGET: Insect and small animal pests and sun damage to trees.

DESCRIPTION: This easy-to-use coating offers an eco-friendly solution to combat sun and rodent damage on trees, shrubs and roses. It's made with Neem oil, which deters insects by repelling, coating and smothering them. This product also contains Castor oil, which most small animals find repugnant. Sunburn and sunscald can cause great stress to plants and can lead to death. This highly reflective paint will keep a good portion of the sun's damaging rays out. Requires only one application per year, as a brush-on or in an RTU spray.



SUGGESTED USE: Brush-on: 1 can contents should cover about 12 young tree trunks (3 gal. size) with a single coat. Fill can with powder and oil vial from can, fill with water and stir. Spray-on: Spray ahead of any expected heatwaves. Coat all exposed leaves, branches and trunk. Some trees may require more than 1 coat.

READY TO SPRAY:

1240150	3-in-1 Plant Guard - 23 oz. Spray-On	\$24.95
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BRUSH ON:

1240100	3-in-1 Plant Guard - Pint White	\$34.95
1240101	3-in-1 Plant Guard - Pint Brown	\$34.95

Gallon and case sizes available for the brush-on version.

BONIDE® Captain Jack's™ Orchard Spray

Use This 3-in-1 Pesticide For Multiple Pests!

TARGET: Fungal diseases, insects and mites on fruit, citrus, nuts, vegetables, ornamentals, houseplants and lawns.

DESCRIPTION: With the active ingredients of sulfur and pyrethrin, this spray can be used on most plants whether indoors or outdoors. This product is a fungicide, pesticide and miticide and can be used up to one day before harvest.

SUGGESTED USE: For concentrate, mix 5 fl. oz. / 1 gal. water (high disease levels = 2 1/2 oz./gal. water). As a fungicide, this product is best used proactively early in the season before diseases appear. To assure contact with the pests/pathogens, thoroughly spray all parts of the plants, especially new shoots and the underside of leaves. Re-spray every 7-10 days, or after a rain. Do not use at temps over 90°F. Do not apply to strawberry fruit intended for canning. Do not spray within 21 days of an oil spray. For use on residential lawns and gardens. Not for use on agricultural establishments growing agricultural crops or commodities for resale.



1247612	Captain Jack's Orchard Spray - 32 oz. RTS	\$26.99
1247610	Captain Jack's Orchard Spray - Pint Conc.	\$15.99
1247611	Captain Jack's Orchard Spray - Quart Conc.	\$24.99

Dr. Earth Fruit Tree & Citrus Fertilizers™

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 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 manure.

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 1/2-1 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

Gallon and case sizes available for the brush-on version.

Cannot be shipped to the following states: HI

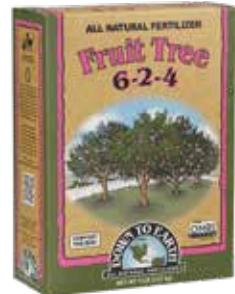
DTE™ Fruit Tree, 6-2-4



Turn Your Backyard Fruit Trees Into Super-Producers.

TARGET: Non-bearing fruit trees as well as bearing fruit trees.

DESCRIPTION: Whether growing one fruit tree or many, this fertilizer provides primary nutrients for vigorous growth and added calcium for robust fruit development. You will not only see healthy trees, but you will also enjoy bountiful crops of nutritious fruit packed with flavor. For use on a wide variety of pome and stone fruit trees – apple, plum, cherry, pear, apricot, fig, mango, peach and more. OMRI Listed & CDFA Registered.



SUGGESTED USE: 2 1/2 cups ~1 lb., 1/2 cup ~ 3.2 oz., 1 Tbsp. ~ 0.4 oz. Apply evenly to soil around the tree, starting 1 ft from the trunk and working outward toward the dripline. Non-bearing trees: Apply 1-2 cups per inch of trunk diameter just after blooming finishes in spring. Make 2 repeat applications at 1-mo intervals. Bearing trees: Apply up to 2 1/2-4 lbs just after blooming finishes in spring. Make 1 repeat application in mid-summer.

1300270	DTE Fruit Tree - 5 lbs.	\$16.99
1300272	DTE Fruit Tree - 15 lbs.	\$39.99
1300271	DTE Fruit Tree - 25 lbs.	\$49.99

Cannot be shipped to the following states: AR, DE, IA, MA, ME, ND, NH, OK, PA, PR, RI, SD, VA, VT, WI, WV, WY

Monterey Fruit Tree Spray Plus



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



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

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

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

1257931	Fruit Tree Spray Plus - Pint Hose-End RTS	\$31.99
1257930	Fruit Tree Spray Plus - Pint Concentrate	\$29.49
1257932	Fruit Tree Spray Plus - Quart Concentrate	\$45.99

Cannot be shipped to the following states: AK, ND, NE, WY



Disease Control

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

RootShield® Plus Granules & RootShield® Plus WP

Use This Biological Fungicide To Eliminate Hard To Control Diseases!

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

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

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

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

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

Large sizes available.

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



Howler Fungicide

A Super-Effective & Ultra-Versatile OMRI Listed Biofungicide.

TARGET: *Alternaria*, *Botrytis*, *Colletotrichum*, downy mildew, *Fusarium*, *Pestalotiopsis*, *Phytophthora*, powdery mildew, *Pythium*, *Rhizoctonia* and *Sclerotinia*.



DESCRIPTION: This organic wettable powder fungicide uses the active ingredient of *Pseudomonas chlororaphis* strain AFS009 to work inside the plant microbiome to attack the pathogenic fungi that cause plant diseases. It does this by producing natural antibodies that directly attack the fungi and enzymes that break down fungal cell walls and prevent spore attachment. All of this action induces a resistance response in the plants that further inhibits fungal growth. For use on a wide range of crops. Can be applied into the soil, in a drench, in a drip, as a foliar spray and in chemigation. 4 hr. REI and 0-day PHI. Approved for use on cannabis in CO.

SUGGESTED USE: Do not apply by aerial application. To ensure tank-mix combinations, they must be evaluated prior to use. Using Howler Alone: 5 lbs/ acre. Fruiting & Leafy Vegetables, Beans, Peas, Dry Pulses & Cole Crops: 67-100 oz/100 gal or 5-15 lbs/acre, depending on application method. Greenhouse Soil Incorporation: 1.75-8.5 lbs/cu. yd. Hydroponic Crops: 1.8-6 oz/1,000 sq. ft. Repeat at 7-10 day intervals.

1332930 Howler Fungicide - 5 lbs. \$75.00

1332935 Howler Fungicide - 5 lbs. - pack of 3 \$202.50

Cannot be shipped to the following states: HI



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 \$36.00

1332982 Mycostop - 25 grams \$138.00

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

Regalia® CG & Regalia®

OMRI Listed Control For Both Bacterial & Fungal Diseases.

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

DESCRIPTION: This biofungicide uses a plant (*Reynoutria sachalinensis*) extract to protect crops from certain soil-borne or foliar diseases and to boost production by improving overall plant health. Regalia can be used in multiple application methods on field and edible crops in conventional, sustainable and organic production. Unique FRAC P₅ classification. 4-hour REI.

SUGGESTED USE: Use early for disease prevention and overall plant health and through the season for continued disease control. Small Scale Applications: 2 Tbsp./gal. of water. Foliar Applications: Downy Mildew and White Mold: 2-4 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

Cannot be shipped to the following states: Regalia CG (1332968, 1332969) cannot ship to FL. Regalia 2.5 gal (1332970) cannot ship to CA.



Asperello T34 Biocontrol

Multiple Applications & Modes of Action Makes This Fungicide/Bactericide Especially Effective.

TARGET: *Botrytis*, black stem, blights, *Fusarium*, leaf blotch, root rots, *Phytophthora*, *Pythium*, *Rhizoctonia*, *Sclerotina* and more.

DESCRIPTION: This biological fungicide/bactericide uses the dried spores of the beneficial fungus *Trichoderma asperellum* strain T34 to provide plant protection, boost overall plant growth, and improve plant defenses against plant diseases and abiotic stresses. Meant to be used preventatively. Optimal soil temperature for use is 68-86°F. High spore count for rapid root colonization and faster protection.



SUGGESTED USE: Apply at plant propagation and continue to use throughout crop cycle. DO NOT apply to mushrooms. Seeds: 0.1-3.2 oz/cwt seed. Dips: 0.35-0.7 oz/12 gal water. In soil: 0.17-0.35 oz/2-10 gal water and apply to 1 cu. yd. substrate. Drench at propagation (seed trays, multi-pots): 1.8 oz/1,000 sq. ft. Drench at or after transplanting: 0.7 oz/100 gal water. Foliar application: 0.5-2.5 oz/10,000 sq. ft. in 12-25 gal water (ensure full coverage but avoid run off).

1332924	Asperello T34 Biocontrol - 250g	\$144.99
1332925	Asperello T34 Biocontrol - 500g	\$264.99
1332928	Asperello T34 Biocontrol - 250g - CA Label	\$144.99

Cannot be shipped to the following states: 1332924 & 1332925: AK, CA, DC, DE, HI, ID, KS, LA, MN, MS, MT, NE, NH, NJ, NC, ND, OR, VA, WV, WY. 1332928: All states but CA.

MilStop SP Foliar Fungicide



Excellent For Controlling Powdery Mildew & Other Fungal Diseases!

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

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

SUGGESTED USE: 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

CEASE® Biological Fungicide



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

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



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

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

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

DISEASE CONTROL

Thyme Guard®

The Highest Percentage Of Thyme Oil Readily Available On The Market Today.

TARGET: Diseases: *Botrytis*, blights, *Phytophthora*, powdery & downy mildew, citrus canker & Citrus Greening (HLB). Insects: thrips, aphids, psyllids, scale, whiteflies & mites.

DESCRIPTION: This unique product contains a strong dose thyme oil. This essential oil is well known to be highly effective against bacteria, fungi and viruses and sucking insects. With plant pathogens, it attacks and breaches the cellular membranes of pathogens, causing their death. As an insecticide, it works as an endocrine disruptor, suffocant and repellent. 100% biodegradable, will not generate resistance and can be used at any time in the growing cycle. Effective against the Asian citrus psyllid. Registered Organic by WSDA.

SUGGESTED USE: Tank mixable with most other chemicals, but it is best to use other products in rotation with this one. Do not mix with peroxides and/or sulfonated fungicides (which may cause phytotoxicity). Always test for compatibility. For established crops: Dilute at a rate of 0.5% (2 qts./100 gals. water or 1:200). For new crops & prevention: Dilute at a rate of 0.25% (1 qt./100 gals. water or 1:400).

1458300	Thyme Guard Concentrate - 32 oz.	\$31.00
1458301	Thyme Guard Concentrate - 1 Gallon	\$116.67

Cannot be shipped to the following states: CT, IN, KY, MD, MA, MT, NV, NM, NY, PA, SD, VT, VA, WY



BotryStop™ WP Biofungicide



These Fungal Spores Will Fight To Replace Pathogens On Plants.

TARGET: *Botrytis cinerea*, *Sclerotinia sclerotiorum* and *Monilinia* spp.

DESCRIPTION: This OMRI-listed biofungicide uses the non-pathogenic saprophytic fungus *Ulocladium oudemansii* strain U3 as its active ingredient. It will out-compete the pathogens for space and nutrients on plant surfaces and in dead and deteriorating plant tissue without harming healthy tissue. Can be used on a wide range of crops grown indoors and outdoors. Excellent for resistance management and IPM programs. WP formula stable at room temp for 12 months. 4-hr REI/0-day PHI.



SUGGESTED USE: Apply when conditions are conducive to disease development, but before pathogens appear. Do not apply through any irrigation system. A non-ionic surfactant or spreader/sticker is recommended. Rate range is 2-4 lb/acre (most commonly 3 lb/acre) Complete coverage of plant surfaces is required. Don't let spray mixture stand overnight or for prolonged periods.

1332845	BotryStop WP Biofungicide - 12 lbs.	\$340.00
1332847	BotryStop WP Biofungicide - 30 lbs.	\$765.00

Cannot be shipped to the following states: CA

ZeroTol® HC

Clean Up & Protect Your Plants With One Powerful Product.

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

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



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. 0-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
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1222410	ZeroTol HC - Gallon Concentrate	\$42.99
1222412	ZeroTol HC - Gallon Concentrate - Case of 4	\$154.76

Cannot be shipped to the following states: DC

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

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

BONIDE® Revitalize® Biofungicide

Get Top To Bottom Disease Control With This NOP-Compliant Biofungicide/Bactericide.

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

DESCRIPTION: Revitalize uses the power of a naturally occurring beneficial bacterium, *Bacillus amyloliquefaciens* strain D747, to control and suppress fungal and bacterial diseases in plants. This bacterium triggers the plant's immune response to fight off pathogens. It will also colonize plant roots, which prevents fungi and bacteria from establishing there. Can be used as a foliar spray and as a soil drench. You can apply indoors or outdoors, but should only use it as a soil treatment on indoor plants.



SUGGESTED USE: Application rate is 1 tsp./gal. of water. Spray directly on plants or into soil. Repeat as needed or every 7-10 days. For transplants: drench with approx. 4 fl. oz. and allow to soak in before transplanting. For lawns, 2-5 gals. of mixture is required for 1,000 sq. ft. of lawn.

1455135	BONIDE Revitalize - 32. oz RTU	\$13.98
1455130	BONIDE Revitalize - 16 oz. Conc.	\$15.98

Concentrate cannot be shipped to: OR

BONIDE® Liquid Copper Fungicide

Use For The Control & Prevention Of Many Fungal Diseases!



TARGET: Works as a knockdown control for the following: anthracnose, bacterial blight, bacterial leaf spot, black spot, *Botrytis*, brown rot, Cedar apple rust, citrus scab, downy mildew, fireblight, *Phytophthora*, powdery mildew, and scab.

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

SUGGESTED USE: RTS does not need to be diluted. Concentrate: Mix ≈2-6 Tbsp./gal. of water or 1 qt./100 gal. depending upon infestation. Repeat at 7-14 day intervals until harvest. Plant and crop-specific instructions included.

1455110	BONIDE Liquid Copper Fungicide - 32 oz. RTU	\$10.99
1455105	BONIDE Liquid Copper Fungicide - 16 oz. RTS	\$21.99
1455106	BONIDE Liquid Copper Fungicide - 32 oz. RTS	\$36.00
1455101	BONIDE Liquid Copper Fungicide - 16 oz. Conc.	\$17.99

RTS (SKUs 1455105 & 1455106) cannot be shipped to the following states: PR
Concentrate (SKU 1455101) cannot be shipped to the following states: AK, DC

Earth's Ally® Disease Control



OMRI Listed. Disease Control That You Can Feel Good Using.



TARGET: Powdery mildew, downy mildew, blight, canker, black spot and leaf spot.

DESCRIPTION: This broad-spectrum organic fungicide uses citric acid to provide a high level of efficacy without leaving any harmful residue on your plants or in the environment. Can be used on all plants and trees, grown indoors or outdoors. Cures and prevents the most common plant disease that growers and gardeners struggle with. Tested and proven safe for bees. 0-day PHI. Minimum risk pesticide exempt from EPA registration under FIFRA 25(b).

SUGGESTED USE: For best results, apply at the first sign of disease. Thoroughly cover all plant parts. Reapply every 7 days. For heavy disease, apply and wait 4 hrs., then repeat application a second time. Repeat this process every 5 days, as necessary. For concentrate use: 1 qt makes up to 10 gals. Mix 3 oz. (or 6 Tbsp.) of concentrate with 1 gal of water.

1459300	Earth's Ally Disease Control - 24 oz. RTU	\$12.99
1459301	Earth's Ally Disease Control - Quart Conc.	\$23.99

WEED CONTROL

WEED BARRIERS

WeedGuardPlus® Organic - Heavy Weight Rolls



This Tough Weed Block Will Hold Up Under The Elements!

TARGET: Use for weed suppression.



DESCRIPTION: This paper weed block is adaptable to nearly any size growing operation in nearly any environment. 100% biodegradable; no need to remove it. Saves time; just lay it down before planting and save yourself countless hours of weeding, spraying or disposing of materials. Or apply it on top of existing weeds and/or invasive plant roots and smother them out. Saves money; no need to buy expensive herbicides. Improves yields; your plants will have a chance to establish themselves without competing with weeds. Porous yet strong; so plants can be watered by natural rainfall or by other means. Allows air flow. Maintains this porosity through all but the most severe of weather. Can be applied by machine or by hand. These rolls are excellent for textured soils and/or those projects that are meant to be long-term. 54% heavier than the standard rolls and offers 12+ months of weed control.

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

1453851	Heavy Weight - Smooth Finish - 36" x 100'	\$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	\$20.35
1453859	EcoMulch - 36" x 50' rolls – 2 pk - Creped	\$23.89

PRE-EMERGENT

Suståne® Spring Weed & Feed, 9-0-0



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



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

DESCRIPTION: This OMRI listed corn gluten meal works wonders in 2 ways: it is a natural broadleaf pre-emergent that suppresses weeds to prevent them from establishing and it provides high levels of nitrogen to green up already established plants and turf. For use as an herbicide, apply before germination of seeds. Should not be applied to new seedlings or when laying sod.

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

1226810 Suståne Spring Weed & Feed - 30 lb. Bag* \$72.00

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

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

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



TARGET: Knockdown control for annual grasses and broadleaf weeds.

DESCRIPTION: Gluten-8 OLP Liquid Corn Meal offers pre-emergent weed control with 1.5% nitrogen to feed your soil. This product is derived from water soluble corn gluten meal, which provides effective and economical pre-emergent control of annual grasses and broad leaf weeds with much less effort than the granular corn gluten. Gluten-8 also contains 1.5% nitrogen (lower than granular corn gluten), which can help you manage nitrogen loads.

All ingredients are EPA Section 25-B exempt. DO NOT use on grass that's been recently seeded; after the first mowing, apply at will. This 1 gallon bottle covers up to 4,000 sq. ft.

SUGGESTED USE: Mix 1 quart Gluten-8 to 3 quarts water to make 1 gallon. Each mixed one gallon treats 1,000 sq. ft. Each gallon of Gluten-8 OLP makes enough mixture to treat 4,000 sq. ft.

1273010 Gluten-8 OLP Liquid Corn Gluten, 1.5-0-0 - Gallon \$61.00
Case sizes available.

BROAD SPECTRUM

**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

*Call for freight quote.

**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
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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 as 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.

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

Cannot be shipped to the following states: CA, PR

CLEANING & SANITIZING



The Power of Peroxyacetic Acid

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

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

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

SaniDate® 5.0



An OMRI Listed Sanitizer/Disinfectant.

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

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

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

1222515	SaniDate 5.0 - 2.5 Gallons	\$230.00
1222517	SaniDate 5.0 - 5 Gallons	\$300.00

Larger sizes available. All sales are final. No returns or refunds allowed.

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

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

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

OxiDate® 2.0



Bactericide & Fungicide For Wide Use

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



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

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

1222501	OxiDate 2.0 - 2.5 Gallons	\$230.00
1222502	OxiDate 2.0 - 5 Gallons	\$340.00

Larger sizes available. All sales are final. No returns or refunds allowed.

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

Cannot be shipped to the following states: DC

ZeroTol® 2.0



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



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

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

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

1222401	ZeroTol 2.0 - 2.5 Gallons	\$230.00
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All sales are final. No returns or refunds allowed.

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

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

ThermX™-70 Natural Wetting Agent



Overcome Adverse Water Conditions!

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



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

Soil: ≈1-2 tsp./gal. water, ≈16 oz./acre

1402403	ThermX-70 Natural Wetting Agent - Quart	\$27.50
1402404	ThermX-70 Natural Wetting Agent - Gallon	\$94.50
1402405	ThermX-70 Natural Wetting Agent - 5 Gallons	\$350.00
1402406	ThermX-70 Natural Wetting Agent - 55 Gallon Drum*	CALL

*Call for freight quote. Call for larger sizes.

Active Air 2-Way Moisture/pH Meter & Active Air 3-Way Meter

Eliminate The Guesswork & Get Your Growing Right With These Easy-To-Use Meters.

DESCRIPTION: The Active Air 2-Way Moisture/pH Meter can quickly and clearly give you the answers you need when it comes to determining whether your plants are getting the right amount of moisture and if the pH in their soil is in the optimal range. With the 3-Way Meter, you will get the moisture and pH readings, but will also be able to determine how much light your planting area is getting. Armed with this crucial information, you can be successful in your growing from planning to plant all the way to plant maturity. No batteries required. For indoor and outdoor use.



SUGGESTED USE: Simply slide the switch into the meter function you wish to deploy and insert into the soil. Moisture Meter Function: The moisture readings registers on a scale of 0 (dry) to 10 (moist) and the meter is also colored-coded for guess-free readings. pH Meter function: You will need distilled water for these readings-apply some to the soil to create a little mud before taking a reading. Light Meter Function: Readings will be determined by a sensor on the front of the meter and will range from low light (0-500) and stronger light (700-2000) levels.

1275220	Active Air 2-Way Moisture/pH Meter	\$9.49
1275221	Active Air 3-Way Meter (Moisture/Light/pH)	\$10.89

SOIL TESTING



Luster Leaf® Rapitest® Soil Test Kit

A Quick Way To Test N-P-K!

1275203	Soil Test Kit for N, P, K, pH	\$18.99
1275204	pH Soil Tester	\$6.99
1275205	10 pH Soil Test Capsules - Green	\$4.79
1275206	10 Nitrogen Soil Test Capsules - Purple	\$4.79
1275207	10 Phosphorus Soil Test Capsules - Blue	\$4.79
1275208	10 Potash Soil Test Capsules - Orange	\$4.79
1275210	Combo Pack of Soil Test Capsules (10)	\$16.99

Luster Leaf® Rapitest® Digital Soil pH Meter



Supplies Quick & Clear Soil pH Readings.

1275222	Rapitest Digital Soil pH Meter	\$15.99
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Luster Leaf® Rapitest® Digital Soil Test Kit



Provides Clear And Definitive Results For pH & NPK In Soil.

1275231	Rapitest Digital Soil Test Kit - 25 pk	\$25.99
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Luster Leaf® Rapitest® Mini Soil 4-in-1 Tester



Works Quickly To Give You All The Essentials For Healthy Growth.

1275235	Rapitest Mini Soil 4-in-1 Tester	\$12.49
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Luster Leaf® Rapitest® Mini Soil pH Tester



Know Your Soil pH In Minutes!

1275237	Rapitest Mini Soil pH Tester	\$8.99
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GROWING SUPPLIES

Boogie Blue Water Filters

A Great Grow Deserves Great Water.

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

DESCRIPTION: Whether you are dealing with additives in municipal water, or worry about what-all is in your well water, Boogie Blue filters can help. They attach quickly and easily to your hose and use catalytic carbon and/or KDF membranes to greatly reduce chemical compounds and organic matter in your water (up to 99% of the chlorine and 87% of the chloramine in municipal waters). Available as Boogie Blue Basic, which will last for 10,000-50,000 gallons of spray volume and Boogie Blue Plus, which will last for 40,000-50,000 gallons.

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

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



LAWN & GARDEN SPRAYERS



BONIDE® Auto Mix Hose End Sprayer

Just A Few Quick Steps To Flawless Spraying.

1800010	BONIDE Auto Mix Hose End Sprayer	\$19.99
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Chameleon Adaptable Hose End Sprayer

Get Perfect Application With This Highly Adjustable Sprayer.

1800006	Chameleon Adaptable Hose End Sprayer	\$14.99
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Economical Liquid Hose End Sprayer

This Simple Sprayer Does All That You Need It To.

1800106	Economical Liquid Hose End Sprayer	\$12.49
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Flo-Master By Hudson Lawn & Garden Sprayer

Economical, Easy-To-Use, Light Duty Sprayer For Home & Garden.

1800101	Flo-Master Lawn & Garden Sprayer - 1 Gallon	\$13.49
1800102	Flo-Master Lawn & Garden Sprayer - 2 Gallon	\$14.99



Bug Blaster™

This Magic Wand Will Blast Away Destructive Bugs.

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

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

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

1452530	30" Anodized Blaster	\$24.95
1452535	Replacement Nozzle	\$12.99

GOPHER & MOLE CONTROL

Root Guard Gopher Wire Baskets

Stop Gophers From Damaging Plant Roots!

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

DESCRIPTION: Designed to keep the smallest and most pernicious gophers from ruining your garden or lawn. Built from long-lasting 20-gauge, double galvanized metal.

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



1257200	Wire Mini Basket (Pack of 6)	\$9.50	
1257201	Wire Basket - 1 Gallon (Pack of 2)	\$9.50	
1257202	Wire Basket - 3 Gallon	\$7.75	
1257203	Wire Basket - 5 Gallon	\$12.00	

Chase™ Granular Mole & Gopher Repellent

A Very Effective Granular Repellent That's Super-Easy To Apply By Hand Or With A Spreader.

TARGET: Gophers & moles.

DESCRIPTION: This is a biodegradable, granular repellent that will chase burrowing animals from your lawn or garden. Use from spring through late fall when the tunnels or cone-shaped mounds from these animals are present. Chase will not kill the target animals, but the active ingredient of Castor Oil is extremely irritating to them. It causes topical itching when they come in contact with it, and when they ingest it they experience digestive distress. All of this will make them uncomfortable enough to avoid treated areas and relocate elsewhere.



SUGGESTED USE: Apply by hand or with a broadcast or drop spreader. Application rate: 1 lb./1,000 sq. ft. Treat the entire affected area at once or "move" the animals by applying 1/3 of product furthest from the point that you want them to exit from. At 1-2 day intervals apply product closer to the exit point. Continue this pattern until animals have left the area. This moving technique works particularly well in locations larger than 100 ft. x 100 ft.

1287900	Chase Granular Mole & Gopher Repellent - 6 lbs.	\$27.00	
1287901	Chase Granular Mole & Gopher Repellent - 32 lbs.	\$85.00	

BONIDE® Repels-All® Animal Repellent

Natural Ingredients That Repel A Variety Of Critters!

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



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

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

1287601	BONIDE Repels-All - Quart RTU	\$13.99
1287605	BONIDE Repels-All - Quart Hose-End RTS	\$26.49
1287600	BONIDE Repels-All - Quart Concentrate	\$20.99

Cannot be shipped to the following states: IN, NM

BONIDE® MoleMax® Mole & Vole Repellent

Reach Down Deep Into Your Soil To Rid Yourself Of Burrowing Pests.

TARGET: Repels moles, voles, gophers, rabbits, armadillos, ground squirrels and other burrowing animals.



DESCRIPTION: This product is made with Castor Oil, a substance that the target animals detest as it causes itching and digestive distress. Castor Oil will do no lasting harm to the animals, but they will go out of their way to avoid it. Apply anytime you notice digging, burrowing or tunneling. Will not harm lawns, gardens, flowerbeds or other desirable plants. Lasts up to 3 months. Available as a Ready-To-Spray (RTU) that can be attached directly to a hose for spraying. Also available as an easy-to-use granules.

SUGGESTED USE: After application, water in for 10-15 minutes. Do not apply directly to water. RTS: 1 quart of RTS will cover up to 10,000 sq ft. Water the area to be treated before applying product. Apply thoroughly to entire target area. Large areas should be done in sections beginning at one point and working toward desired "exit" point of the total area treated. Soak product in well. Granules: Apply 2 lbs/1000 sq ft and reapply every 2-3 months. Can be applied directly from the bag or by using a broadcast or drop spreader.

1287907	MoleMax Mole & Vole Repellent - 32 oz. RTS	\$17.99
1287908	MoleMax Mole & Vole Repellent - 5 lbs. Granules	\$14.99

Cannot be shipped to the following states: RTS: AK, DC, IN, NM, PR Granules: IN, PR

CRAWLING INSECT CONTROL

EcoPCO® AR-X Multi-Purpose Insecticide

Quick Pest Knockdown In A Gentle Botanical-Based Formula!

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

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

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

1457403 EcoPCO® AR-X Multi-Purpose Insecticide - 15 oz. **\$19.49**
Ships via Ground ONLY.



Avenger® Boric Acid Roach Killer II

Contains 64% Boric Acid To Make Quick Work Of Targeted Pests

TARGET: Ants, palmetto bugs, roaches, silverfish and waterbugs

DESCRIPTION: This odorless and non-staining product contains a high dose of boric acid, which disrupts an insect's digestive system upon ingestion. This will stop future feeding and cause the insect to starve to death. Crawling insects usually return to their nests to die. In some cases, other insects consume them and the poison is spread to other parts of the pest population.

SUGGESTED USE: Apply liberally around, under and behind kitchen appliances, into openings around drains, water pipes and electrical conduits and along baseboards and in, around and under cabinets and furniture. Any powder visible after application will need to be brushed into cracks and crevices or vacuumed up. Reapply as needed. Keep children and pets away from area while applying. Do not apply to carpets or pets. Avoid contaminating feed, foodstuffs or ornamental plants.

1219564 Avenger Boric Acid Roach Killer II – 16 oz. **\$4.25**



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

Dr. Earth® Final Stop® Pest Control Killer Spray



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 **\$14.45**

Essentria™ G Granular Insecticide

A Granular That Handles A Handful Of Outdoor Pests!

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

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

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

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



FIRE ANT CONTROL

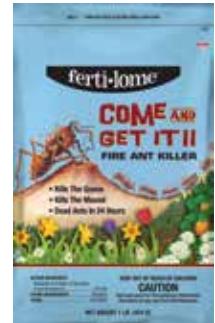
Fertilome® Come And Get It II Fire Ant Killer



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

Perma-Guard™ Crawling Insect Control



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

TARGET: Any crawling or hopping pest insect.

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



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

1218250 Perma-Guard Crawling Insect Control - 2 lb. Bag \$11.00

1218260 Perma-Guard Crawling Insect Control - 5 lb. Bag \$18.00
Case sizes available.

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

Orange Guard® Fire Ant Control



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

TARGET: Fire ants.

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



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

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, ND, NE, NH, NJ, NY, OH, OR, PA, PR, RI, SD, UT, VT, VA, WA, WI, WV, WY

INDOOR PEST TRAPS



Enoz® BioCare® Birdseed & Pantry Moth Traps

Keep Moths From Eating Food Intended for You & Your Feathered Friends.

1280315	2 Pack	\$5.99
1280316	2 Pack - Bundle of 2	\$10.00

Enoz® BioCare® Clothes Moth Traps

Break The Reproductive Cycle By Luring, Trapping & Killing Adult Male Moths.

1260702	2 Traps	\$6.99
1260703	3 Pack - 2 Traps per Pack	\$18.00

Enoz® BioCare® Flour & Pantry Moth Traps

Stop Sharing Your Food With Pesky Moths.

1280318	2 Pack	\$5.99
1280319	2 Pack - Bundle of 2	\$10.00

Enoz® Trap-N-Kill® Crawling Pest & Insect Trap

Rid Your House of Crawling, Creeping, Scurrying & Scuttling Pests!

1280205	6 Pack	\$4.99
1280206	6 Pack - Bundle of 3	\$13.99

Enoz® Trap-N-Kill® Flea Trap

Works Day & Night, Year-Round, To Eliminate Fleas Without Poisons.

1280110	1 Trap	\$19.99
1280111	Pack of 3 Traps	\$53.97

Enoz® Trap-N-Kill® Roach Traps

Professional Quality Cockroach Traps That Are Effective & Easy To Use.

1260210	6 Pack	\$6.99
1260211	6 Pack - Bundle of 2	\$12.99

Harris Bed Bug Detection Traps

This Low-Cost Option Provides 24/7 Detection Power.

1240315	Harris Bed Bug Detection Traps - 4 Pack	\$5.99
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Harris Cricket Traps

Chirping Driving You Mad? Get These Traps.

1452443	Harris Cricket Traps - 2 Pack	\$6.49
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Harris Plug-In Flea & Insect Trap with Night Light Attractant

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

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

Harris Roach Traps

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

1219552	Harris Roach Traps - 2 Pack	\$6.79
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Harris Spider Traps

Do Spiders Creeping Around Give You The Creeps? Get These Traps.

1280210	Harris Spider Traps - 2 Pack	\$6.79
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PERSONAL REPELLENTS



BiteBlocker® Insect Repellents

DEET Free Protection From Biting Pests.

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

Protector Spray Repellent - Mosquitoes

Don't Let Mosquitoes Ruin Your Outdoor Life!

1212020	Protector Spray - Mosquitoes - 2 oz.	\$4.99
1212021	Protector Spray - Mosquitoes - 4 oz.	\$5.99
1212022	Protector Spray - Mosquitoes - 8 oz.	\$8.99
1212028	Protector Balm Stick - Mosquitoes - 2 Pack	\$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	\$10.99
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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

Bug Bam Mosquito Band®, Grids & Pet Tags

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



TARGET: Mosquitoes, fleas and ticks.

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

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

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

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
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COMPANY INFORMATION

ASK THE EXPERTS

Take advantage of our FREE consultation! Let us help solve your gardening and farming issues with our start to finish ARBICO Organics solutions. Our trained staff will help determine what problem you have (insect, disease, weed, nematode, critter, pet issue, fertility needs), offer solutions for immediate relief and prescribe a long term sustainable program for continued success.

AUTO SHIP PROGRAM

We can automatically ship any product on a 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.

ARBICO Organics

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Oro Valley, AZ 85737-9531

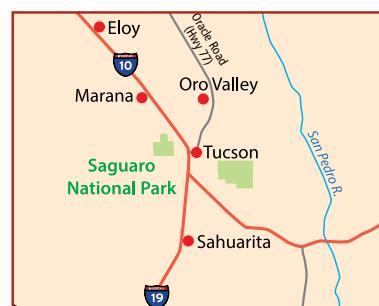
800-827-2847

Please call for product availability.

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 www.arbico-organics/category/return-policy.

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 Guarantees" are the sole and exclusive remedies available to buyer. All damages, including incidental and consequential damages, are hereby excluded.

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Vice President,
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04/2023