

ARBICO *organics*[®]

NATURAL & ORGANIC SOLUTIONS SINCE 1979

SUMMER 2024



*Unlock Your
Bountiful Summer!*

Solutions for Your Thriving Garden, Farm & Home



Predatory Insects



Fly Control



Biorational Insecticides



Weed & Disease Control



***Providing over
forty-five years
of environmental
stewardship
and service
to our customers.***

***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)



Warm summer greetings to all,

Vibrant summer colors surround us, reminding us of the season's beauty and vitality. At ARBICO Organics, we believe summer is a time of year when nature truly thrives, and we are excited to celebrate this wonderful season with you.

In the summer of 1979, two thoughtful individuals, Rick and Sheri Frey, had the idea of mass rearing beneficial insects for biological fly control. These tiny insects, known as fly parasites (Fly Eliminators™), were used to control filth breeding flies as an alternative to pesticide-based fly control.

The ARBICO Organics team has grown since then, and we remain grateful to share in your joys and challenges and inspired to continue supporting you with natural and organic solutions for your home, garden, farm or livestock needs.

As we celebrate summer, we invite you to embrace this period of sunshine and warmth! It is the perfect time to celebrate what you have cultivated!

With appreciation,

Rick, Sheri and the ARBICO Organics Team

OUR PROMISE



Guaranteed Live Delivery



Customer Service



Commitment to Quality

SUMMER GROWING SOLUTIONS

4 Predatory Insects



9 Thrips Control



15 Beneficial Nematodes



18 Pest Insect Traps



24 New Insecticides



23 Fly Eliminators



34 Fly Control



38 Mosquito Control



44 Fertilizers



48 Disease Control



52 Weed Control



60 Home Pest Control



POWERFUL PEST CONTROL



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

ADVANTAGES

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

Assassin Bug - *Zelus renardii*



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

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



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

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

Temperature: 55-110°F

Relative Humidity: 10-75%

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

ADVANTAGES

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



Looking For Ladybugs?

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

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

GREEN LACEWING 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	\$50.00
1110105	≈25,000 Eggs on Cards	\$100.00

GREEN LACEWING LARVAE:

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

GREEN LACEWING ADULTS:

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

SUGGESTED USE (Depending upon level of infestation):

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

Weekly Programs and Discounts Available

Larvae & Adults Require OVERNIGHT Shipping

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

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

Aphid Predator - *Aphidoletes aphidimyza*

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

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

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

SUGGESTED USE (Depending upon level of infestation): Apply to existing infestations weekly, until pests subside. Use ~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 - *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 - *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 ervi*

This Non-Stinging Parasitic Wasp Attacks Larger Aphid Species.

Image Citation: Alex Wild

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

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

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

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

1001001	~250 Mummies	\$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





Integrated Pest Management of Whiteflies

1. Carefully inspect new plants before transplanting.
2. Dip foliage and root ball in soapy water, or hydrogen peroxide solution, to clean and kill any existing whitefly eggs, nymphs or adults.
3. Monitor pest thresholds with yellow sticky traps or ribbons.
4. Release Green Lacewing preventatively before infestation becomes severe.
5. Consider specialist parasites and predators for targeted whitefly infestations.
6. For quick knockdown control, consider sprays with a low environmental impact such as *Beauveria bassiana* products (see page 29) or Neem based sprays.
7. Clean tools and equipment as well as greenhouse structures between growing seasons. Shop Cleaning & Sanitizing online at www.arbico-organics.com

Whitefly Parasite - *Eretmocerus eremicus*

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

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



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

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

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

1000703 ≈5,000 in 20 x 250 Blister Packs **\$94.95**

Overnight Shipping Required

Whitefly Parasite - *Encarsia formosa*



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

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



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

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

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

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

2nd Day Shipping Required

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

Whitefly Predator - *Delphastus catalinae*

These Tiny Brown Beetles Consume Several Hundred Pests Daily!

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



DESCRIPTION: Females lay ≈3-4 eggs daily and adults live for approximately one month. Adult beetles capture prey with their mandibles, inject paralyzing venom & feed on pest body fluids. Shipped as adults, they should be used at the first signs of infestation.

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

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

1126001	≈100 Count	\$50.00
1126003	≈200 Count	\$90.00
1126002	≈1,000 Count	\$190.00

Overnight Shipping Required

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



Integrated Pest Management of Fungus Gnats

1. Monitor and trap with yellow sticky traps to assess the severity of infestation.
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 38).
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.

Rove Beetle - *Dalotia coriaria* (= *Atheta coriaria*)

For Indoor Control Of Soil Dwelling Pests!

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

DESCRIPTION: "Rove beetles" will feed on small soil-dwelling pest larvae and eggs. Adults are a brown-black color, 3-4 mm long and winged. They are predacious in all stages and develop from egg to adult in about 21 days; passing through three larval instars prior to pupation and adulthood. Adults consume about 150 pest fungus gnat eggs per day. Compatible with *Stratiolaelaps scimitus* (= *Hypoaspis miles*). Winged adults have high dispersal and colonization rates and are not recommended for outdoor use.



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

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

1101330	≈500 Adults	\$54.00
1101331	≈1,000 Adults	\$78.00
1101332	≈3,000 Adults	\$170.00
1101334	≈5,000 Adults	\$250.00

Overnight Shipping Required

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

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

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



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

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

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

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

Overnight Shipping Required

Control Fungus Gnat Larvae Using *Bacillus thuringiensis israelensis*

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

It can be used in conjunction with Beneficial Nematodes and Fungus Gnat predators as part of an IPM plan. **For additional fungus gnat control solutions, see page 38.**



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 14-17 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 19).

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



Thrips & Whitefly Predator - *Amblyseius swirskii*

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

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

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

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

Temperature: Moderate 77-85°F

Relative Humidity: 70%

BULK SIZES:

1101312	≈25,000 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



BULK SIZES:

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

CONTROLLED RELEASE W/HOOKS:

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

CONTROLLED RELEASE ON STICKS:

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

CONTROLLED RELEASE-SPECIALTY:

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

Overnight Shipping Required

Mite Predator - *Amblyseius andersoni*

Great For Pre-Emergent Control Of Pest Mite Infestations!

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

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

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

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

BULK SIZES:

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

CONTROLLED RELEASE:

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

Overnight Shipping Required



Mite Predator - *Neoseiulus (=Amblyseius) californicus*

Good For Areas Where Temperatures Fluctuate Greatly Such As Deserts.

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

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

SUGGESTED USE (Depending upon level of infestation): Use ≈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:

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

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	≈62,500 - 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



Spider Mite Destroyer - *Feltiella acarisuga*

We Recommend This Predator When Spider Mite Infestations Are Widespread.

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

DESCRIPTION: The larvae of this tiny gall-midge feeds on two-spotted spider mites and various other species of spider mites. Recommended to be used with *P. persimilis* when spider mite infestations are severe to rapidly knock back the pest mites. *Feltiella* works best on plants that have hairy stems. Adults do not prey on spider mites, but search for colonies and deposit eggs next to them. Eggs hatch in 2 days and larvae feed on all stages of spider mites for 4-6 days. The entire life cycle is about 15 days.

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

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

1155701	≈250 Count	\$144.00
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Overnight Shipping Required



Sachets

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



Mite Predator - *Neoseiulus* (=Amblyseius) fallacis

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

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

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

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

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

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

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

Overnight Shipping Required



Spider Mite Destroyer - *Stethorus punctillum*

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

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

DESCRIPTION: Using smell, this tiny ladybug is an effective locator and as an adult will consume more than 40 mites per day. Females lay up to 15 eggs per day. Development to the adult stage takes around 18 days at a temperature of 70°F and the total lifespan of the predator is about 9 weeks. They are known to survive temperatures over 100°F in field crops.

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

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

1113300	≈50 Count	\$80.00
1113301	≈100 Count	\$105.00

Subject to seasonal availability.

Overnight Shipping Required



Mite Predator - *Phytoseiulus persimilis*

The Mite Predator With The Highest Consumption & Dispersal Rate.

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

TARGET: Two spotted spider mites and various other mites.

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

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

P. persimilis PLUS Sachets

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

SUGGESTED USE (Depending upon level of infestation):

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

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

P. PERSIMILIS PLUS BULK SIZES:

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

P. PERSIMILIS PLUS CONTROLLED RELEASE:

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

P. PERSIMILIS PLUS RAPID RELEASE:

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

Overnight Shipping Required



Mealybug Parasitoid - *Anagyrus* spp.

Stop Destructive Mealybugs With This Beneficial Parasitoid.

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

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

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

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

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

112060	≈100 Mummies	\$75.00
112061	≈200 Mummies	\$80.00
112072	≈500 Mummies	\$185.00

Currently only available for sale within the state of CA.

Overnight Shipping Required



Red Scale Parasite - *Aphytis melinus*

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

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

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

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

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

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

Overnight Shipping Required



Mealybug Destroyer - *Cryptolaemus montrouzieri*

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

Image Citation: Nijel Cruz

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

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

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

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

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



Portable, Convenient & Provides On the Spot Detection!



Active Eye 60X Clip-On Phone Microscope
2000200 \$10.49

Active Eye Microscope 100X
2000205 \$21.99



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 for longer 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 wasps to emerge while keeping other pests out.



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. **DISPENSERS/CAPSULES:** 50,000-200,000 parasites/acre. Use 3 dispensers/capsules to treat up to 3000 sq. ft. 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 pretiosum

General predator.

BULK:

1131055	$\approx 1,000,000$	\$225.00
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CONTROLLED RELEASE - DISPENSERS:

1131062	$\approx 7,500$ - 3 Dispensers	\$18.50
1131062	$\approx 12,500$ - 5 Dispensers	\$25.00
1131062	$\approx 25,000$ - 10 Dispensers	\$37.50
1131062	$\approx 62,500$ - 25 Dispensers	\$43.75
1131065	$\approx 125,000$ - 50 Dispensers	\$75.00

CONTROLLED RELEASE - CAPSULES:

1131070	$\approx 5,000$ - 5 Capsules	\$17.50
1131070	$\approx 10,000$ - 10 Capsules	\$20.00
1131070	$\approx 30,000$ - 30 Capsules	\$37.50
1131071	$\approx 60,000$ - 60 Capsules	\$60.00
1131075	$\approx 90,000$ - 90 Capsules	\$67.50

Trichogramma brassicae

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

CARDS:

1131910	$\approx 10,000$ (3 Tabs)	\$18.50
1131903	$\approx 20,000$ (6 Tabs)	\$20.00
1131911	$\approx 100,000$ - 1 Card (30 Tabs)	\$40.00

BULK EGGS:

1131950	$\approx 100,000$	\$32.00
1131955	$\approx 1,000,000$	\$225.00

CONTROLLED RELEASE - DISPENSERS:

1131963	$\approx 7,500$ - 25 Dispensers	\$18.50
1131963	$\approx 10,000$ - 5 Dispensers	\$25.00
1131963	$\approx 25,000$ - 10 Dispensers	\$37.50
1131963	$\approx 62,500$ - 25 Dispensers	\$43.75
1131965	$\approx 125,000$ - 50 Dispensers	\$62.50

CONTROLLED RELEASE - CAPSULES:

1131971	$\approx 13,500$ - 5 Capsules	\$18.50
1131971	$\approx 27,000$ - 10 Capsules	\$22.50
1131971	$\approx 67,500$ - 25 Capsules	\$47.25
1131972	$\approx 135,000$ - 50 Capsules	\$67.50
1131975	$\approx 270,000$ - 100 Capsules	\$108.00

Trichogramma minutum

East of the Rockies; budworms, leafrollers and codling moths.

CARDS:

1129001	$\approx 10,000$ (3 Tabs)	\$18.50
1129003	$\approx 20,000$ (6 Tabs)	\$20.00
1129010	$\approx 100,000$ - 1 Card (30 Tabs)	\$40.00

BULK EGGS:

1129050	$\approx 100,000$	\$32.00
1129051	$\approx 200,000$ (2 x 100k)	\$60.00
1129052	$\approx 500,000$ (5 x 100k)	\$150.00
1129055	$\approx 1,000,000$	\$225.00

Trichogramma platneri

West of the Rockies, orchards and tall crops.

CARDS:

1130001	$\approx 10,000$ (3 Tabs)	\$18.50
1130003	$\approx 20,000$ (6 Tabs)	\$20.00
1130030	$\approx 100,000$ - 1 Card (30 Tabs)	\$40.00

BULK EGGS:

1130050	$\approx 100,000$	\$32.00
1130051	$\approx 200,000$ (2 x 100k)	\$60.00
1130052	$\approx 500,000$ (5 x 100k)	\$150.00
1130055	$\approx 1,000,000$ (10 x 100k)	\$225.00

FREE SHIPPING in the contiguous 48 states. Ships Monday - Thursday via 2nd Day. Please allow for a minimum of 24 hours to process orders. Orders received after 8:00 AM on Thursday will ship the following Monday. Upgraded Overnight shipping will incur a \$20 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
- Fungus Gnats
- Thrips
- Caterpillars
- Flea Beetles
- Weevils & More!



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

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

See pages 15-17 for more information.



What Are Beneficial Nematodes?

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

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

How Do Beneficial Nematodes Work?

Beneficial Nematodes are applied to soil where they locate pests, enter through orifices or body walls and infect pests with toxic bacteria. Once inside, it is not the nematode that actually kills the pest, but bacteria inside the nematode.

The bacteria kills pests within 24 to 48 hours. Beneficial Nematodes then feed on bacteria and host insect tissue. Adult stages of Beneficial Nematodes produce hundreds of thousands of new juveniles.

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



NemAttack Beads Encapsulated Beneficial Nematodes



■ = NemAttack *Steinernema 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**.

Apply To Soil For Control Of Target Pests:

- Beetle Grubs
- Flies
- Fungus Gnats
- Rootworms
- Thrips
- Weevils
- Leafminers
- Worms
- 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.

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.

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!



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 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, scarids, shore flies, thrips and more!



NemAttack™ *Steinernema riobrave* (Sr) Beneficial Nematodes

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



NemAttack™ *Steinernema carpocapsae* (Sc) Beneficial Nematodes

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



NemaSeek™ *Steinernema kraussei* (Sk) Beneficial Nematodes

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



NEMATODE SELECTION CHART – Choose Variety By Pest

Pest	Variety	Pest	Variety	Pest	Variety	Pest	Variety
Ants (Queen)	▲	Colorado Potato Beetle	▲	Greater Wax Moth	★	Root Weevils	▲▲
Armyworm	●★	Corn Earworm	●■★	Grubs	▲▲	Scarabs	▲
Artichoke Plume Moth	●	Corn Rootworm	▲	Humpbacked Flies	■	Scarids	■
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	\$40.00
◆ 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	\$40.00

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.

PEST INSECT TRAPS



Sticky Traps

Monitor & Trap For Best Pest Identification!

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

Aphid/Whitefly Yellow Sticky Traps:

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

Thrips/Leafminer Blue Sticky Traps:

TARGET: Thrips, leafminers.

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

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



Enoz® BioCare® Gnat Stix

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

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

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

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

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



ARBICO Organics® Yellow Insect Traps

Monitoring + Trapping = Effective Pest Control

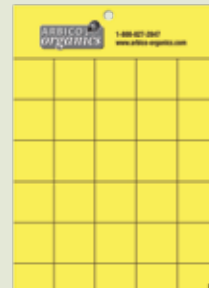
TARGET: Use against aphids, bean beetles, california laurel aphids, flea beetles, fungus gnats, greenhouse whiteflies, leafminers, psyllids, shore flies, silverleaf whiteflies, sweet potato whiteflies and more.

DESCRIPTION: ARBICO Organics Yellow Insect Traps are 5" x 7" gridded, 2-sided adhesive traps for a wide range of crawling and flying insect pests. Insects are drawn in by the bright color and are caught on the glue. Once they are trapped, the gridded surface makes it easy to count just how many have landed. Having the insects immobilized on the trap also makes it easy to identify them. There is a very low risk to beneficials, but some may become caught by accident.

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

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

1254501	ARBICO Organics Yellow Insect Traps - 5 Pack	\$4.99
1254502	ARBICO Organics Yellow Insect Traps - 10 Pack	\$9.50
1254503	ARBICO Organics Yellow Insect Traps - 25 Pack	\$23.75
1254504	ARBICO Organics Yellow Insect Traps - 50 Pack	\$46.00
1254510	ARBICO Organics Yellow Insect Traps - 100 Pack	\$87.50



Stiky™ Strips Yellow Insect Traps

These Basic Traps Come With A Handy Wire Hanger.

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

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

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

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



Yellow Stiky™ Tape

Longer Length Tape To Cover Even More Area.

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

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

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

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

*Larger quantities available.



Blue & Yellow Sticky Ribbon Rolls

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

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

DESCRIPTION: These sticky ribbon rolls are an effective way to trap and monitor insects in large growing areas. Install around the perimeter of your garden or greenhouse and, since they are double-sided, they will trap insects coming and going. They can also be placed along the ground to catch crawling insects. Blue attracts thrips and leafminers and yellow attracts aphids, whiteflies and other soft-bodied insects. Pheromone lures or essential oils can be added to increase catch potential.

SUGGESTED USE: For best results, install the trap at the time of planting as a preventative treatment. Rolls can remain in place until the trapping surface is fully covered with insects or debris. It can be wrapped around fenceposts 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



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



Olson Garden Guard Yellow Stiky™ Ribbon

This Ribbon Is Just Right For Encompassing Small Gardens.

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

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

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

1259605	Garden Guard Yellow Stiky Ribbon - 2" x 100 ft.	\$12.99
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TREE & ORCHARD CARE



Targeted Pest Insect Traps

While some traps simply use color and adhesive to lure and trap pests, targeted pest traps utilize pheromones (insect hormones) that simulate the scent produced by the female insect to seduce or lure their male counterparts. Males lured into traps are prevented from mating.

In addition to killing the pest, traps can be used to monitor pest insect populations, empowering growers or gardeners to decide when to intervene with biological controls, repellents, or insecticides.

Apple Maggot Trap Kit

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

1239210	Apple Maggot Trap Kit - 1 Kit	\$54.99
	(Contains 25 apple spheres, 25 wire holders and 2 cans of 8 oz. brushable adhesive.)	

Tree Wraps

Protect & Defend Damaged or Vulnerable Trees

1259640	Olson Stiky Tree Wrap - 7" x 36" - 15 ct	\$33.00
1259650	Dalen Tree Wrap - 3" x 50'	\$4.18
1259655	DeWitte Tree Wrap - 3" x 50'	\$5.49

Citrus Leaf Miner Trap & Lure

Citrus Leaf Miner Males Are Attracted To This Diamond Trap.

1254605	Citrus Leaf Miner Trap & Lure (2 Traps/2 Lures)	\$20.00
1254232	Pest Wizard Kit - 2 Traps/2 Lures/2 Hangers	\$19.99

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
1254290	Pest Wizard Codling Moth Trap Kit	\$15.99

Peach Tree Borer Moth Trap

Trap & Monitor Clearwing Borers on Stone Fruit Trees

1254601	Trap Kit - 2 Traps/2 Lures	\$17.00
1254253	Pest Wizard Kit - 2 Traps/2 Lures/2 Hangers	\$21.99

Maggot Barriers

Thick Weave & Reinforced Seams For Greater Protection.

1403302	Maggot Barriers - Box of 100	\$13.50
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Cucumber Beetle Trap

Monitor Early for These Ravenous Pests

1254602	VivaGrow - 2 Traps/2 Lures	\$19.25
1254240	Pest Wizard - 2 Traps/2 Lures	\$14.99

Squash Vine Borer Moth Trap

Attract & Trap Adult Moths to Break the Pest Lifecycle

1254265	Pest Wizard - 2 Traps/2 Lures	\$15.99
1254266	Pest Wizard - 3 Replacement Lures	\$14.99
1254603	VivaTrap - 2 Traps/2 Lures	\$16.75

Dead-Inn Stink Bug Trap

Trap Multiple Species with a Patented Pheromone Lure

1254610	Homeowner Trap Kit	\$35.00
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Spotted Lanternfly Trap

Start Early to Control These Invasive Pests

1254236	Pest Wizard Trap Kit - 2 Traps/2 Lures/4 Hangers	\$21.99
1254237	Pest Wizard - 3 Replacement Lures	\$20.99

Spotted Wing Drosophila (SWD) Trap & Lure

Monitor Your Fruit for Early Intervention

1230928	SWD Kit (1 Trap + 1 Lure)	\$19.50
1230925	SWD Trap Only	\$12.50
6000035	SWD Lure Only	\$8.50



See full line of Scentry traps & pheromone lures online.

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 14-17 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 14-17), 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.



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
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[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
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[See online for more information.](#)

BotaniGard® MAXX

Beauveria bassiana & Pyrethrins Make A Powerful Team!

1341030	BotaniGard Maxx - Quart	\$115.00
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[See online for more information.](#)

BEETLE CONTROL

BONIDE® Captain Jack's™ Neem Max

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

1246610	Captain Jack's Neem Max - 8 oz. Conc.	\$13.99
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[See online for more information.](#)

PyGanic® Gardening

Rapid Knockdown & Kill For Outdoor Pests In Your Garden.

1288710	PyGanic Gardening - 8 oz.	\$35.00
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[See page 31 for more information.](#)

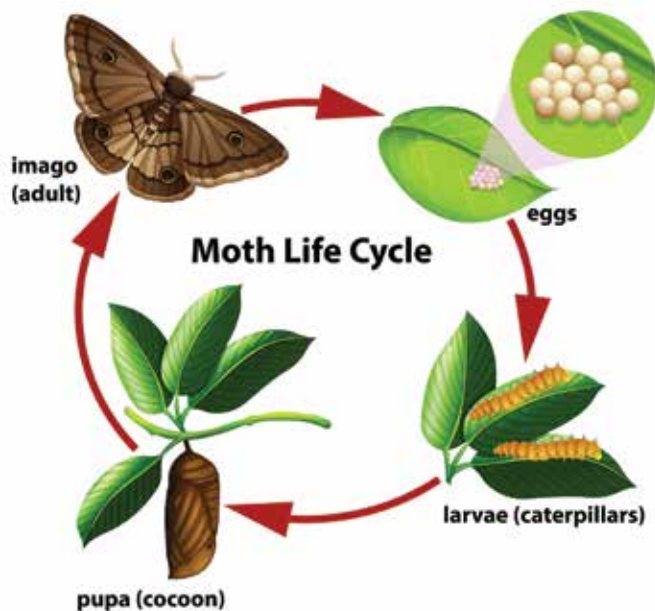
Molt-X®

An Excellent Spray With Multiple Modes Of Insecticidal Action.

1332771	Molt-X - Quart	\$350.00
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[See online for more information.](#)

CATERPILLAR CONTROL



BT NOW®

An Extremely Effective Biopesticide That Controls Crop-Damaging Caterpillars.

TARGET: Armyworms, bagworms, borers, budworms, caterpillars, earworms, leafrollers, loopers, Spangy 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
1201222	BT NOW - 2.5 Gallon Concentrate	\$170.00

Cannot be shipped to the following states: DC



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	\$25.49
1201209	Monterey B.t. Concentrate - 8 oz.	\$13.49
1201210	Monterey B.t. Concentrate - Pint	\$14.99
1201211	Monterey B.t. Concentrate - Quart	\$22.99
1201212	Monterey B.t. Concentrate - Gallon	\$81.99

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



BONIDE® Thuricide

Caterpillar Targeting *Bacillus thuringiensis* var. *kurstaki*

TARGET: Control of caterpillars.

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

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

1201205	BONIDE Thuricide RTU - Quart	\$13.99
1201206	BONIDE Thuricide RTU - Gallon	\$41.48
1201201	BONIDE Thuricide Liquid Concentrate - 8 oz.	\$10.97
1201202	BONIDE Thuricide Liquid Concentrate - 16 oz.	\$16.99



For biological control of caterpillars see page 13.

DiPel® Pro DF & DiPel® DF



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

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

DESCRIPTION: This dust-free, flowable powder bioinsecticide works quickly; pests will stop feeding within the hour and die in a few hours to 3 days. Use the smaller-sized DiPel PRO DF for 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 tsp./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.	\$22.95
1207006	DiPel DF - 1 lb.	\$24.75
1207004	DiPel DF - 5 lbs.	\$119.50



Deliver®



A Potent Bioinsecticide For Optimal *Lepidoptera* Control.

TARGET: Various *Lepidoptera* including Armyworms, Bagworms, Codling Moth, Corn Earworm, Cutworms, Diamondback moth, Spongy Moth, Hornworms, Cabbageworms, Oriental Fruit Moth, Tent Caterpillars and more

DESCRIPTION: Formulated with a strain of *Bacillus thuringiensis kurstaki* (Btk) that has a high concentration of Cry1Ac insecticidal protein that is exceptionally effective when ingested by *Lepidopteran* pests, this powerful bioinsecticide is up to 5 times as potent – pound for pound – as other products containing Btk. The wettable granular formulation provides uniform dispersion and increased coverage, which translates into lower use rates and lower overall costs. It is an excellent choice for IPM and resistance management programs, is non-toxic to beneficials, exempt from residue tolerance, has a 4-hour REI and 0-Day PHI and can be used on a variety of crops including vegetables, cole crops, corn, fruit, strawberries, melons, forest and shade trees, nut and vine crops, cotton, hops, ornamental plants, grains, soy, beans, turf and tobacco.

SUGGESTED USE: Apply at first sign of newly hatched larvae at feeding sites. Combine with additional adjuvants, spreaders, or stickers to increase effectiveness and apply by ground or air mixed with enough water to cover desired area, adjusting as needed based on infestation levels.

1201230	1 lb. Bag	\$29.99
1201231	2.5 lb. Bag	\$72.50

Cannot be shipped to the following states: CA, DC, KY, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, NV, NH, NJ, NM, NC, ND, OH



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

Wing Trap

You'll Get Options & Economy With This Trap!

1230440	Scentry Wing Trap - Pack of 5	\$22.50
1230441	Scentry Wing Trap - Pack of 10	\$40.00

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.**

BIORATIONAL CONTROL



Next Generation Solutions

The term "biorational" encompasses pesticides, fungicides and herbicides that have minimal side effects and toxicity to non-target species and the surrounding environments. "Biorational" products can be made from ingredients like specific minerals, botanical extracts and soaps.

Explore the latest Biorational solutions featured on these pages, or visit www.arbico-organics.com to shop all insecticides.

OrganiShield™



Fast Acting Contact Insecticide.

TARGET: Adelgids, aphids, armyworms, caterpillars, glassy-winged sharpshooter, lace bugs, leafhoppers, mealybugs, mites, plant bugs, psyllids, soft scales, tent caterpillars, thrips and whiteflies.

DESCRIPTION: This is a biochemical insecticide/miticide that offers fast-acting control for a long list of targeted insect pests. The active ingredient in this certified organic product is a molecule called a Sucrose Octanoate Ester (SOE), a natural insect control. Effective within minutes to hours. Primarily a contact insecticide with limited residual activity. Can be used on indoor & outdoor plants. Contains no oils. 0-day PHI and 48-hr REI.

SUGGESTED USE: Do not use in any type of irrigation system. Apply as soon as infestation begins and use in sufficient water to achieve adequate coverage of all parts of foliage. Repeat applications as necessary at intervals of 7-10 days. Use a 0.8% to 1.0% v/v solution of this product, depending on the severity of infestation. Use between 25 and 400 gallons of total mix volume per acre.

1332736	Organishield - Pint	\$39.99
1332736	Organishield - Quart	\$77.99
1332737	Organishield - Gallon	\$269.99

Larger sizes available.

Cannot be shipped to the following states: AL,AK,AR,CT,DE,DC,GA,ID,IL,IN,IA,KS,KY,LA,M E,MN,MS,MO,MT,NE,NH,NM,NY,ND,OH,PR,RI,SD,TN,TX,UT,VT,WV,WI,WY



EpiShield



Delivers a Powerful Punch of Essential Oils with Lower Application Rates!

TARGET: Aphids, Mealybugs, Mites, Spider Mites, Thrips and Whiteflies

DESCRIPTION: EpiShield, an advanced miticide and insecticide, offers growers unparalleled convenience. Its concentrated blend of peppermint (15%) and clove (10%) oils ensures high pest mortality rates with minimal application. Versatile for use indoors and outdoors, it effectively suppresses mites, aphids, whiteflies, mealybugs, and thrips across a variety of crops. Lower application rates allows flexibility in timing and is perfect for spot sprays. With no known risks of resistance or residue tolerance, it's an efficient solution in agriculture and commercial settings.

SUGGESTED USES: Dilute 9-12 fl oz per 100 gallons per acre for foliar applications. Use immediately and agitate the solution regularly. Spray top and bottom of leaf canopy until wet but without runoff. Repeat applications at 5-7 day intervals as needed. See label for dip application instructions.

1332775

EpiShield – 36 oz.

\$288.00



Sil-Matrix® LC

OMRI Listed & NOP Approved Silicon-Based Fungicide/Miticide/Insecticide.

TARGET: Aphids, mites and whiteflies and protection from fungal diseases like powdery mildew and *Botrytis*.

DESCRIPTION: This organic product uses potassium silicate (silica) as its active ingredient. It serves as a desiccant and creates a protective barrier on/around the leaf surface. These actions prevent the penetration of fungi and make the surface less palatable to insects. Additionally, silica helps strengthen cell walls and improves photosynthesis, quality and yields. 4-hr REI and 0-day PHI.

SUGGESTED USE: Preventative application is recommended. For best results, spray on a regular schedule no sooner than every 7 days. Foliar applications: 20-250 gal/acre in a 0.25%-1% solution (1-4 qt product/100 gal) at a minimum rate of 20 gal/finished spray/acre. Compatible with most fungicides and insecticides, but sensitive to low pH materials (combine at lowest possible concentration). Use with a nonionic surfactant for maximum efficacy.

1247670

Sil-Matrix LC - 2.5 Gallons

\$99.00

1247672

Sil-Matrix LC - 2.5 Gallons - Case of 2

\$178.20



BioCeres EC



An Effective *Beauveria bassiana* Mycoinsecticide - Now Available as a Liquid Concentrate!

TARGET: Various soil-based and foliar feeding plant pests including Aphids, Beetles, Borers, Grasshoppers/Mormon Crickets, Grubs, Leafhoppers, Mealybugs, Plant Bugs, Psyllids, Thrips, Weevils and Whiteflies.

DESCRIPTION: BioCeres EC is an emulsifiable liquid mycoinsecticide formulated with *Beauveria bassiana*. This entomopathogenic fungus' spores eliminate pests by adhering to the pest, causing infection, then penetrating the protective barrier of the insect's cuticle where they reproduce inside the host pest and ultimately cause death in 5-7 days. BioCeres EC can be used on pests in all life stages. It has no current known insect resistance, is tank mixable with pesticides, fertilizers and adjuvants (do not mix with fungicides) and has a 4-hour REI and Zero-Day PHI. Effective on a wide-variety of environments and crops; it is labeled for indoor and outdoor food crops, orchard crops, greenhouses, nurseries, commercial landscapes and range land, interiorscapes and turf.

SUGGESTED USE: Most effective when used at first sign of pest infestation. Thorough coverage and repeated application are suggested every 3-7 days for effective control. For outdoor ground applications: Apply 16-48 ounces per acre in sufficient volume of water (at least 50 gallons total volume) in a mix tank with agitation going and use a spreader/sticker adjuvant for increased adhesion. For soil applications: Apply 1-4 oz per 1,000 sq. ft in enough water for ensure good coverage (at least one gallon per 1,000 sq. ft.) and irrigate after application. For greenhouse applications: Mix 16-48 ounces per 100 gallons of water. Use at least 50 gallons per acre, spray to cover plant foliage but avoid runoff and repeat at 5-7 day intervals as needed. For turfgrasses and landscapes: Use 48-96 oz per acre.

1332885 Gallon Conc **\$450.00**
Cannot be shipped to the following states: HI, PR



LALGUARD M52 GR



A Convenient Granule Bioinsecticide Effective against Black Vine Weevil Larvae, Thrips Pupae, & More!

TARGET: Black Vine Weevil larvae, whiteflies, thrips (including pupae), aphids and ticks in turf.

DESCRIPTION: Grown on grains of rice, the fungus *Metarhizium brunneum* strain F52 (formerly known as *Metarhizium anisopliae*) releases spores that effectively control pests with minimal impact on applicators and the environment. These spores will adhere to pests' bodies where they germinate and access the main body cavity through the insect's cuticle. Then they colonize the pest host and cause death in about 3-7 days. This bioinsecticide can be used with beneficials, has no known resistance risks, has a 0-day PHI and is tolerance exempt.

SUGGESTED USE: For best results, apply at the early stages of pest development and reapply every 4-6 weeks. Apply prior to planting or mix thoroughly into the top portion of soil where pests will be present before they emerge. Mix thoroughly into the soil or growing media at rate of 1.5-3 lbs./cu. yd. depending on pest and environment. For turf, apply 1-3 lbs./1,000sq. ft. and follow recommendations on the label for suggested layout based on pest type.

1332999 22 lbs **\$540.00**
Cannot be shipped to the following states: DC, HI



LALGUARD M52 OD



A Broad-Spectrum Bioinsecticide That Delivers Comprehensive Control

TARGET: Whiteflies, thrips, mites, aphids and various other greenhouse pests.

DESCRIPTION: Formulated with spores derived from the fungus *Metarhizium brunneum* strain F52 (formerly known as *Metarhizium anisopliae*), this bioinsecticide promotes eradication of both foliar and soil pests while minimizing adverse effects on applicators, non-target organisms, and the environment. Upon application, the spores of the active ingredient will adhere to the targeted pest's bodies. These spores will then germinate, penetrate the insect's cuticle, colonize it and ultimately lead to the pest's termination within 3-7 days after application. It can be used with IPM strategies including beneficial insects, has no known resistance risks, is tolerance exempt, has a 0-day PHI, 0-day REI when soil incorporated, and a 4-hour REI when used as a drench, dip or foliar application.

SUGGESTED USE: For best results, apply at the early stages of pest development and adjust application frequency dependent on pests' life cycle and application environment. Persistence of the fungal spores will generally be higher when incorporated into soil and with foliar applications in greenhouses versus foliar applications outdoors. Repeat applications at 5-10 day intervals or 2-5 day intervals for high populations of whiteflies. Rates will vary, for most pests and environments use 40-80 fl. oz. / 100 gal as a drench or 8-64 fl. oz. (0.5 pt.-2 qt.) / acre for foliar applications. Apply using a hand-held, ground and/or aerial spray equipment. Contains emulsifiers and mixes readily with water.

1332998 Liter **\$194.17**
Cannot be shipped to the following states: DC, HI, GU



MULTI-PURPOSE

Organic JMS Stylet-Oil®



Smother Pests & Mites and Fight Fungus & Disease Every Season!

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, MA, MS, MT, PA, PR, SD, 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: 0.5 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: 0.5-1 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	\$15.82
1459201	The Amazing Dr. Zymes Eliminator - Quart Conc.	\$39.69
1459202	The Amazing Dr. Zymes Eliminator - Gallon Conc.	\$142.32

Larger sizes available.

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



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, the oil molecules are rearranged 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.	\$35.00
1274201	PureCrop1 - 1/2 Gallon	\$78.00
1274202	PureCrop1 - Gallon	\$155.00
1274203	PureCrop1 - 2.5 Gallons	\$350.00

Larger sizes available.



SuffOil-X®



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

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

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

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

1332805	SuffOil-X - 2.5 Gallons	\$90.00
1332806	SuffOil-X - Case of 2 ct./2.5 Gals.	\$162.00

Larger sizes available.

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



Rango™



Three Types Of Control Delivered Through Superior Suspension.

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

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

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

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

Case sizes available.



Monterey Neem Oil

Effective Against Indoor And Outdoor Insect Pests & Fungal Diseases!

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

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	\$14.99
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



BONIDE® Neem Oil

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

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

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

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

1246602	BONIDE Neem Oil RTU - Quart	\$11.97
1246605	BONIDE Neem Oil RTU - Gallon	\$34.99
1246603	BONIDE Neem Oil Concentrate -1 Pint	\$22.99

Pint Conc Cannot be shipped to the following states: DC, OR



DeBug® Turbo

Controls Over 200 Pest Insects, Plant Parasitic Nematodes & Other Plant Pathogens.

TARGET: Red ants, cutworms, grubs, chinch bugs, crickets, aphids, whiteflies, thrips, beetles, leafhoppers, spider mites, caterpillars, cabbage loopers, armyworms, grasshoppers, maggots, weevils, chafers, spider mites, spittlebugs, webworms, *Rhizoctonia solani*, *Sclerotium rolfsii*, *Sclerotinia sclerotiorum*, *Fusarium oxysporum*, rust and powdery mildew.

DESCRIPTION: OMRI listed DeBug Turbo is an insecticide, fungicide, miticide, and nematocide. Use to control insects in various stages of development, repel insects from entering treated areas and to deter insects from feeding on treated surfaces. It also acts as a growth regulator when ingested by young insects. Contains a high concentration of azadirachtin, tri-terpenoids and neem oil. It has a low REI and PHI and can be used without harm to beneficial insects.

SUGGESTED USE: Mix 2 Tbsp (1 oz.)/32 oz. of water in spray container. Spray on foliage, making sure to completely saturate all surfaces. Apply in early morning or late evening with temperatures less than 95°F. For best results apply weekly; do not water leaves for 24 hours after application.

1450500	DeBug Turbo - Quart	\$80.00
1450502	DeBug Turbo - Gallon	\$285.00

Case sizes available.

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



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 unique blend of potassium sorbate, sesame oil, lecithin and edible fish oil work as an insecticide, miticide and fungicide. It contains no petroleum solvents. 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. Use a sprayer that puts out a fine spray.

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

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



Grandevo® CG & Grandevo® WDG



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

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

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

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

1332953	Grandevo CG - 1 lb.	\$40.00
1332954	Grandevo CG - 4 lbs.	\$140.00
1332952	Grandevo WDG - 6 lbs.	\$162.00
1332955	Grandevo WDG - 20 lbs.	\$500.00



M-Pede®



A Highly Effective, Organic Insecticidal Soap.

TARGET: Adelgids, aphids, caterpillars, lace bugs, leafhoppers, leafminers, mealybugs, mole crickets, plant bugs, psyllids, scales, spider mites, thrips, whiteflies, spongy moths & chinch bugs. Curative control for powdery mildew.

DESCRIPTION: This organic foliar spray insecticide/miticide/fungicide is made from potassium salts of naturally derived fatty acids (aka insecticidal soap) and can be used on a wide range of crops grown organically or conventionally in fields, greenhouses, or interiorscapes. M-Pede works in all life stages of mites, aphids and whiteflies. Other listed insect pests, the effects are limited to early growth stages and eggs. 12-hr REI & 0-day PHI.

SUGGESTED USE: This product may be applied with most types of ground or aerial spray equipment, but **DO NOT** use with pulse/thermal fogger applicators or apply through any type of irrigation or hydroponic system. M-Pede rates as low as 0.25% v/v or as high as 4% v/v may be used. **Do not** mix with sulfur or use within 3 days of a sulfur application. To avoid any possible plant injury do not make repeat applications at less than 7-day intervals, or make more than 3 sequential applications at 7- to 14-day intervals

1247650	M-Pede - 2.5 Gallons	\$153.00
1247652	M-Pede - 2.5 Gallons - Case of 2	\$275.40



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 bacterium, 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.	\$32.97
1458301	Thyme Guard Concentrate - Gallon	\$118.33

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



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



Beauveria bassiana

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

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

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

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

DESCRIPTION: BotaniGard is a natural contact insecticide that contains 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	\$360.00

BotaniGard 22WP

1341000	BotaniGard 22WP - 1 lb. Powder	\$95.00
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Case sizes available.

Shipping Restrictions: Cannot ship via US Mail.



Mycotrol® WPO



A New Formulation For A Reliable Favorite!

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

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

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

1341100	Mycotrol WPO - 1 lb.	\$125.00
1341105	Mycotrol WPO - 1 lb. (Case of 12)	\$1,350.00



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 fumosorosea* 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
1332877	NoFly WP - 20 lbs.	\$1,100.00

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	\$150.00
1332960	Venerate XC - 2.5 Gallons	\$260.00



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.	\$280.00
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Garlic Barrier®



Protect Your Plants With Garlic!

TARGET: Ants, aphids, armadillos, armyworms, beetles, birds, caterpillars, deer, grasshoppers, leafhoppers, leafminers, loopers, mealybugs, mites, rabbits, sawflies, whiteflies and wireworms.

DESCRIPTION: Made from 10% garlic extract, when absorbed by plants it helps to protect them from pest insects, repelled by the smell and taste. The garlic odor diminishes about 30 minutes and will not alter taste.

SUGGESTED USE: Apply weekly. For nematode and grub control, spray seeds before planting. For foliar applications, apply before noon for best results. Mix at a rate of 1 cup/ 10 cups water to cover about 15,000 sq. ft.

1452602	Garlic Barrier - Quart	\$15.95
1452603	Garlic Barrier AG+ - Gallon	\$73.80

Call for larger sizes.

Cannot be shipped to the following states: AK, AL, AR, DC, DE, IA, ID, KS, KY, LA, MS, ND, SC, WA, WV, WY



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.	\$35.00
1288730	PyGanic Gardening - Gallon	\$285.00



PyGanic® Specialty



New Label – Same Terrific Product As PyGanic 5.0!

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

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

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

1288770	PyGanic Specialty - 32 oz.	\$179.20
1288780	PyGanic Specialty - Gallon	\$650.00



Monterey Garden Insect Spray



Insect Pests 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	\$13.99
1257906	Monterey Garden Insect Spray Conc. - 32 oz. RTS	\$35.99
1257901	Monterey Garden Insect Spray Conc. - 8 oz.	\$15.99
1257900	Monterey Garden Insect Spray Conc. - Pint	\$21.99
1257905	Monterey Garden Insect Spray Conc. - Quart	\$35.99
1257910	Monterey Garden Insect Spray Conc. - Gallon	\$124.49

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



AzaSol™



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

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

DESCRIPTION: Through a patented process, the active ingredient in Azasol, Azadirachtin, is transformed into water-soluble amorphous powder that quickly dissolves in water and won't clog equipment or leave an oily residue or discoloration on plants. When used as directed it is effective on adult insects, larvae and pupae. It will vigorously repel insects, kill them when they come in contact with the spray or feed on sprayed plants and interrupt their life cycles. Won't burn leaves or block photosynthesis. Can be injected in trees for 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





WHAT ARE FLY ELIMINATORS?

The Sensible Alternative To Pesticides

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

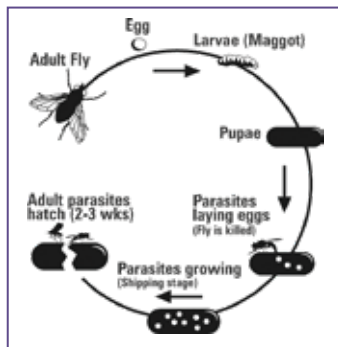


Adult Fly Eliminator emerging from fly pupa.

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

HOW DO FLY ELIMINATORS WORK?

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



Life cycle of the fly parasite.

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

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

Philadelphia Park Recommends ARBICO's Fly Eliminators

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



— Roy Smith, Former Track Manager of Philadelphia Park

WHO USES FLY ELIMINATORS?

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

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

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



HOW DO I USE FLY ELIMINATORS?

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

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



Fly Eliminators and wood shavings in packaging.



Use Your Fly Eliminators the RIGHT Way:

RIGHT Time

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

RIGHT Place

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

RIGHT Amount

- ✓ The more Fly Eliminators, the fewer the flies

RIGHT Schedule

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

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. © 2024 Arizona Biological Control, Inc.

POULTRY CARE

The Amazing Doctor Zymes Poultry Guard

NEW

Stop Stressful Poultry Pests & Have Happier, Healthier Birds!

TARGET: Prevents and eliminates mites, ticks, fleas and other harmful insects that commonly affect poultry.

DESCRIPTION: Made from citric acid and enzymes that breakdown proteins and organic matter, this spray will disrupt a pest's ability to breath, eliminating and repelling them! This product will help to relieve pest stressors, enhancing your flock's health and product quality. It is biodegradable, leaves no residues, helps eliminate odors and can be applied at all life stages and up until the harvest!



SUGGESTED USE: Can be applied as a spray to coops, infected areas, floors, walls, ceilings and in cracks and crevices or directly to birds as a dip or spray according to directions. It can also be applied in a mister for commercial farms. For preventative control as a spray, apply weekly. For preventative control utilizing other application methods, apply monthly. Always mix with warm at a temperature between 70-90°F. **For control of poultry mites/lice** – Mix at a ratio of 1 oz./31 oz. water or 4 oz./124 oz. of water. **For control of fleas/beetles** – Mix at a ratio of 8 oz./1 gallon of water. **To clean bedding area or cages** – Mix at a ratio of 4-8 oz./1 gallon of water. Remove all bedding and litter and spray entire area including cracks and crevices and replace bedding if severely infested.

1459210	Poultry Guard - Quart Conc.	\$37.26
1459211	Poultry Guard - Gallon Conc.	\$134.40
1459212	Poultry Guard - 2.5 Gallon Conc.	\$323.64
1459213	Poultry Guard - 5 Gallon Conc.	\$613.87

PyGanic® Specialty



Livestock & Poultry Control of Lice, Mites And Beetles.

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

DESCRIPTION: Pyganic Specialty is an OMRI listed insecticide suitable for treating poultry and their surrounding locations. Made from botanical ingredients, it effectively controls poultry pests while ensuring the safety of the birds. Pyganic Specialty offers reliable protection against common poultry pests, promoting a healthier environment.

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



1288770	PyGanic Specialty - 32 oz.	\$179.20
1288780	PyGanic Specialty - Gallon	\$650.00

MAGGOT CONTROL

Sc Beneficial Nematodes

FREE SHIPPING

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.



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	\$150.00
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ODOR & MANURE CONTROL

SCD Probiotics Barn Kleaner

Great For Manure Odor & Decomposition!

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

DESCRIPTION: Animal manures can contain harmful organisms, emit unpleasant odors and serve as natural breeding grounds for flies and other pesky insects. Composed from fourteen different species of beneficial microorganisms, this product can be used around animals to help clean areas where manure is present and can help accelerate the decomposition of manure. Use this product as part of a fly control program to stop adult flies from having a place to lay eggs and support new generations.

SUGGESTED USE: For barn cleaning apply approximately 1 cup/2.5 gal. of water using a backpack sprayer or portable hand sprayer twice per week. Use on all bedding areas, directly on manure and on all surfaces, including floors, wall and ceilings. Store at room temperature and away from direct sunlight.

1202700	SCD Barn Kleaner - Liter	\$20.74
1202701	SCD Barn Kleaner - Gallon	\$50.77
1202704	SCD Barn Kleaner - 5 Gallon	\$230.95



SCD ScentGuard™

Remove Various Odors With Beneficial Bacteria!

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

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

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

1202721	SCD ScentGuard - Liter	\$20.74
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ADULT FLY SPRAYS & 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



Equiderma Horse Spray

This Powerful Spray Has A Light Citrusy Scent.

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

DESCRIPTION: This unique combination of botanical oils, neem and aloe will repel biting and blood-sucking insects, control future insect populations and protect your animal's skin from fungal and bacterial skin diseases. The oils are a powerful repellent; the neem oil has antibacterial, antiviral, anti-inflammatory and antifungal properties and also disrupts the insect life cycles, while the aloe helps protect the skin and keep the coat nice and shiny. DEET, Pyrethrin and Permethrin free and can be used on horses, ponies, foals, dogs, pigs, cows, llamas, alpacas and chickens.

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

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



ADULT FLY SPRAYS & REPELLENTS

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	\$8.50
1107551	Ecovet Fly Repellent - 18 oz. Bottle	\$29.95
1107552	Ecovet Fly Repellent - Gallon Refill	\$149.95

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

EcoSmart® Horse Fly Spray

Give Your Horse Fast-Acting Relief From Flying Insect Pests.

TARGET: Flies and mosquitoes

DESCRIPTION: EcoSmart Horse Fly Spray is a non-toxic solution formulated with a blend of essential oils including clove, thyme, cinnamon, lemongrass, and peppermint. It works to kill (on contact) and repel flies and mosquitoes on horses. Safe for direct application onto horses, it provides long-lasting repellent power. Conveniently packaged in a ready-to-use spray bottle, it requires no mixing and is intended for use on horses only.

SUGGESTED USE: Ready to use and no mixing is required. Shake well before spraying. Brush horse's coat prior to applying to remove dirt and debris. Apply spray evenly, particularly to legs, shoulders and other areas flies are most often attracted to. Avoid eyes, nose, mouth and other sensitive areas. Do not saturate.



1107520	Horse Fly Spray - 24 oz. RTU	\$13.99
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FLY TRAPS

Sticky Fly Ribbon

Fly Control On A Roll!

TARGET: Flies

DESCRIPTION: Made in the USA, this thin "stiky" ribbon is easy to place in customizable patterns in various spaces! Add the Hardware Kit to zigzag it across spaces to create barriers and traps near crevices and other smaller points of entry in areas where flies are a nuisance. It is pesticide-free and holds up to 40,000 flies. Excellent for bars, stables, zoos, kennels and more!

SUGGESTED USE: Wear gloves to install Sticky Fly Ribbon, positioning it above people or animals and avoiding pathways. Hang string using provided hardware or DIY alternative to capture flies. Once sticky surface is covered, cut away used portion and unspool fresh ribbon.



1280630	Sticky Fly Ribbon KIT (Hardware & Ribbon)	\$64.80
1280631	Sticky Fly Ribbon On A Roll - 1,000 ft	\$32.00
1280632	Hardware for Sticky Fly Ribbon	\$40.00

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	\$19.99
1256021	Biting Fly Trap - Pack of 3	\$53.97
1256022	Biting Fly Trap - Pack of 5	\$84.95
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

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



ARBICO Organics® Solar Fly Trap



Heavy Duty, Reusable, 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
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BIOLOGICAL CONTROL

Mosquito Bits®

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

TARGET: Mosquito and fungus gnat larvae.

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

SUGGESTED USE: Sprinkle 1 teaspoon per 25 sq. ft. or 1 tablespoon per 75 sq. ft. (1/2 lb. per 2,178 sq. ft.) over the surface of containerized standing water. This includes bird baths, water troughs, unused swimming pools, old automobile tires, water gardens, rain barrels and more. DO NOT APPLY to finished human drinking water sources.

1211108	Mosquito Bits - 8 oz.	\$10.95
1211136	Mosquito Bits - 30 oz.	\$17.80
1211130	Mosquito Bits - 20 lbs.	\$119.00
1211139	Mosquito Bits & Dunks Combo Kit	\$19.92



Mosquito Dunks® and Chunks®

Kills Mosquitoes In Their Larval Stage Without Using Poison

TARGET: Mosquito larvae.

DESCRIPTION: These popular products are designed to be placed in standing water, where they will slowly release the beneficial bacteria *Bacillus thuringiensis israelensis* (Bti). Mosquito larvae growing in the water will feed on the Bti and die within 24 hours of ingestion. Can alternate between wet and dry without losing efficacy. Species-specific control that will not harm people, pets, fish or plants. Effective for up to 30 days. Dunks can be anchored with a string to keep them in a specific place, while the smaller-sized Chunks are designed to be tossed into the water.

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

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



AQUABAC® 200G Granular Bti Mosquito Control



Use This Bti Larvicide Wherever You Have Mosquitoes Breeding

TARGET: Larval stages of mosquitoes, fungus gnats and black flies.

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

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

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

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

Ships via Ground ONLY. Call for pallet pricing.



AQUABAC® Xt



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

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

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

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

1211160 AQUABAC Xt - 2.5 Gallons* **\$190.00**

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

*Free Shipping in the contiguous 48 states. Ships via ground ONLY. Call for pallet pricing.



AQUABAC® fg



Biocontrol Designed for Fungus Gnat Control Through Chemigation.

TARGET: Larval stages of fungus gnats.

DESCRIPTION: *Bacillus thuringiensis* var. *israelensis* (Bti) Strain BMP 144 is labeled for control of fungus gnat larvae in greenhouses or nurseries growing vegetables, herbs or ornamentals using using sprinkler/chemigation systems. Similar to mosquitoes, once Bti is ingested, it works rapidly to damage cells and fatally paralyze the fungus gnat larva. AQUABAC fg will not harm any other form of aquatic life or beneficial insects.



SUGGESTED USE: Apply Aquabac fg directly to crops using a specified sprinkler chemigation methods. Additionally treat surrounding floors, tables, benches or other breeding areas. For light infestations, use 8-16 fl. oz. of Aquabac fg/100 gal. of water. For heavy infestations, increase to 32-64 fl. oz. and reapply weekly. Specific application restrictions can be found on the package label.

1211180	AQUABAC fg - 2.5 Gallons*	\$210.00
1211182	AQUABAC fg - 2.5 Gallons/Case of 2*	\$400.00

*Free Shipping in the contiguous 48 states. Ships via ground ONLY. Call for pallet pricing.

Natular® DT

These Easy-to-Use Fizzy Tablets Kill Mosquito Larvae For 60 days!

TARGET: Use to kill the larvae of container breeding mosquitoes, e.g., *Aedes aegypti* and *Aedes albopictus*.

DESCRIPTION: Use this Spinosad-based product to kill mosquito larvae in standing water. These small bi-layer tablets use a dual-release action to ensure a quick kill and continuous control. The first layer is effervescent and will bubble up, dissolve and spread within 60 seconds and begin killing larvae within 24 hours. The second layer dissolves more slowly over the next 60 days. Can be applied to sites that contain fish and plants. Poses no threat to honeybees and other beneficials. Tablets may be cut in half for use in smaller areas.



SUGGESTED USE: Use 1 tablet to treat up to 50 gallons (192 liters) or 25 sq. ft. For continuous action, keep tablet immersed in water. Can be allowed to dry and rewet for use in sites that intermittently fill with water. Reapply after 60 days. Can be applied as a preventative action (pre-flood treatment) before sites fill with water.

1211250	Natular DT - 60 day tablets - 12 ct. Package	\$12.99
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Fungus Gnats Control Strategies to Help Protect your Plant's Roots:

ASSESS THE SEVERITY OF INFESTATION.

- Monitor and trap adults with yellow sticky traps (see pg. 18).

INHIBIT BREEDING HABITATS BY CONTROLLING SOIL MOISTURE LEVELS.

- Provide proper drainage to avoid standing water.
- Allow media to dry between waterings.
- Circulate air and prune plants to ensure adequate air flow.

PREVENT AND TREAT INFESTATIONS.

- Apply *Bacillus thuringiensis israelensis* to stop larvae from pupating.
- Apply NemAttack *Steinernema feltiae* Beneficial Nematodes to parasitize fungus gnat larvae and thrips (see page 14-17)
- Apply Fungus Gnat predators like Rove beetles (*Dalotia coriaria*) that will establish in growing environments and control multiple soil dwelling pests.



Mosquito Magician



An Essential Oil-Based Product That Offers 3-in-1 Mosquito Control.

TARGET: Mosquitoes, fleas and fire ants.

DESCRIPTION: Mosquito Magician is a liquid, highly concentrated product that suffocates larvae in the standing water where they breed, kills 100% of mosquitoes within 24 hours in a single treatment. Made with a combination of citronella, cedar, lemongrass, garlic, geraniol and rosemary oils, Mosquito Magician sprays in a very fine mist for maximum coverage and control. Mosquito Magician has been tested and proven to kill 100% of mosquitoes in 24 hours and also have a 100% kill rate on fire ants and fleas.

- You can buy some concentrate and use your own sprayer or choose from one of the Mosquito Magician Yard Sprayer Combos listed below.

SUGGESTED USE: 1 pint concentrate treats up to 16,000 sq. ft.; 1 quart concentrate treats up to 32,000 sq. ft.; 1 gallon concentrate treats up to 128,000 sq. ft. and 1 gallon RTU treats up to 4,000 sq. ft.

1211140	Mosquito Magician - 16 oz. Concentrate	\$25.29
1211141	Mosquito Magician - 32 oz. Concentrate	\$43.99
1211142	Mosquito Magician - Gallon Concentrate	\$109.95

Mosquito Magician Yard Sprayer Combos

1211138	Battery Sprayer & 2 Gallons RTU	\$79.99
1211147	Pump Up Sprayer & 2 Pints Concentrate	\$79.95
1211146	Hose End Sprayer & 1 Gallon Concentrate	\$119.95
1211148	Pump Up Sprayer & 1 Gallon Concentrate	\$149.95
1211149	Pump Backpack Sprayer & 1 Gallon Concentrate	\$239.95



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



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	\$12.99

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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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

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

See Pages 38-40 for Mosquito Larvicides & Repellents

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



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 tsp. 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.

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

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

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



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

1308003	ARBICO Organics Earthworms (~1,000)	\$45.00
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Cannot be shipped to the following states: HI, PR, VI, GU, AS, PW

Subject to seasonal availability.

BSFL Nutrient +

NEW

Food Waste Turned Into Plant Strength

DESCRIPTION: Made by Arizona Worm Farm, makers of Black Soldier Fly Frass, this ground-breaking liquid plant nutrient is produced by emulsifying Black Soldier Fly Larvae and frass. The Black Soldier Fly Larvae emulsion (3-3-5) is combined with Black Soldier Fly Frass (3-2-1), pure well water and phosphoric acid (for stabilization) to create a hydrolysate that contains plant nutrients, beneficial microorganisms, chitin, glutamate and enzymes. This product has an added element of sustainability as the Black Soldier Flies are excellent decomposers and are raised on food waste promoting Arizona Worm Farm's circular zero-waste process!



SUGGESTED USE: Shake well before using. For gardens: Dilute at a ratio of 4:1 with water and apply to soil. For starts: Dilute at a ratio of 8:1 with water and apply to soil. Trees: Add one cup (undiluted) for each three feet of tree height and water well. Not recommended for use on seeds.

1300425	BSFL Nutrient + - Gallon	\$20.00
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Cannot be shipped to the following states: State(s)

ARBICO Organics® Earthworm Castings

So Good For Your Garden It's Almost Magical!

DESCRIPTION: A sustainable byproduct of vermiculature, 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

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 x 10⁶ spores/gr.



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

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

1135001	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

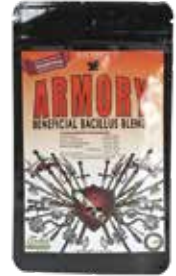
*Free shipping in the contiguous 48 United States via USPS mail.

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

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	\$45.00
1202102	EM•1 Microbial Inoculant - Gallon	\$79.70
1202103	EM•1 Microbial Inoculant - 5 Gallons	\$398.50

Call for larger sizes.

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

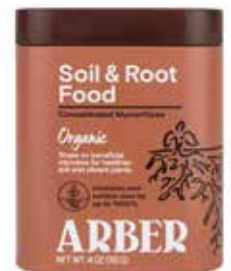
Arber® Soil & Root Food



Give Your Rhizosphere The Boost It Needs With A Simple Sprinkle of Beneficial Microbes!

DESCRIPTION: This concentrated blend of Mycorrhizae, *Bacillus*, and beneficial soil microbes contains crucial soil components that will promote increased plant growth and yield. It contains Mycorrhizae that form powerful associations with roots to assist plants in accessing nutrients and water and *Bacillus* to further support soil health and to decrease the occurrence of plant diseases and resultant stress.

SUGGESTED USE: For best results, apply monthly. Apply at a rate of 1 tbsp/gallon of soil. For transplants or when repotting, shake near bottom of planting hole and for established plants mix into topsoil and water thoroughly.



1314797	4 oz. Shaker	\$15.99
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Shop All Organic Soil Solutions At

www.arbico-organics.com

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
1314753	AgroThrive Fruiting & Flowering Fertilizer - 2.5 Gallons	\$62.97



AgroThrive™ General Purpose Fertilizer, 3-3-2

Sub-head: This Easy-To-Use Fertilizer Has Numerous Organic Accreditations.

TARGET: Growers with a variety of plants looking for an organic, liquid bio-fertilizer.

DESCRIPTION: This all-in-one solution liquid bio-fertilizer provides balanced organic plant nutrition with the added benefit of enhancing soil microbes. Derived from sustainable sources, including repurposed organic material, AgroThrive General Purpose works to promote faster growth with healthier, stronger plants. OMRI, CDFA, USDA, and WSDA certified.

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

1314760	AgroThrive General Purpose Fertilizer – 32 oz.	\$19.99
1314762	AgroThrive General Purpose Fertilizer – Gallon	\$34.99
1314763	AgroThrive General Purpose Fertilizer – 2.5 Gallons	\$59.97



Arber® Organic All Purpose Fertilizer

High Quality Nutrients Elevated with Biochar

TARGET: Growers with diverse indoor and outdoor plants looking for more than just fertilizer.

DESCRIPTION: Organic All-Purpose Fertilizer is tailored for both outdoor gardens and indoor plants. The proprietary blend of Biochar and fertilizer ensures rapid nutrient release while retaining excess nutrients, providing both fast-acting results and long-term soil enrichment. Enhance year-round soil health and nourish all your plants with this one powerful product for bigger blooms, deeper roots and stronger plant health. NPK: 3-2-1. OMRI Listed and NOP Certified.

SUGGESTED USE: New transplants: Apply 2 tbsp per gallon of soil and thoroughly mix. Potted plants: Sprinkle evenly on the soil surface, mix into top layer then water. Raised beds: Use 2.5 cups per 10 sq. ft. of soil, mix into top 3" and water in. Top dress mature trees, shrubs and ornamentals with 6 tbsp of fertilizer. Mix into top 3-6 inches of soil then water thoroughly.

1314795	All Purpose Fertilizer – 3 lbs	\$14.99
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Arber® Organic Fruit & Veggie Fertilizer

Nutrition for Quality Crops that Positively Impacts the Soil

TARGET: Gardner's looking for vibrant, thriving vegetables all season long.

DESCRIPTION: The exclusive blend of Biochar and fertilizer in Organic Fruit & Veggie Fertilizer quickly releases nutrients for increased yield and harvest and allows for sustained plant nourishment over several months. This results in a combination of immediate effectiveness and long-term enhancement of soil health. Enjoy nutritious and bountiful crops through improved soil structure and water capacity, and nutrient preservation. NPK: 4-3-2. OMRI Listed and NOP Certified.

SUGGESTED USE: New transplants: Apply 3 tbsp per gallon of soil and thoroughly mix. Potted plants: Sprinkle evenly on the soil surface, mix into top layer then water. Raised beds: Use 2.5 cups per 10 sq. ft. of soil, mix into top 3" and water in. Top dress mature trees, shrubs and ornamentals with 6 tbsp of fertilizer. Mix into top 3-6 inches of soil then water thoroughly.

1314796	Fruit & Veggie Fertilizer – 3 lbs	\$14.99
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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.



Solutions from the Sea

In addition to NPK, Seaweed and kelp-based fertilizers are valued for their many vitamins, minerals and enzymes including magnesium, zinc and iron.

They provide broad plant benefits throughout the growing cycle and can act as biostimulants.

Kelp fertilizers are known to reduce the effects of stressors, boost plant recovery and limit nutrient burn as well as increase harvest yields.

Our ocean continues to grow kelp rapidly creating ample and renewable resources that can be converted to extracts, powders or liquids to deliver nutrient dense fertilizers for growers.

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.



Maxicrop® Soluble Seaweed Powder, 0-0-17

Improves Germination & Helps Prevent Diseases.

TARGET: Soils that need additional minerals.

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

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

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



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.



Maxicrop® Kelp Meal, 1-0-2

Successful Growers Choice To Correct Deficiencies & Improve Plant Nutrition!

TARGET: Deficient soils that need macronutrients.

DESCRIPTION: Maxicrop Kelp Meal (1-0-2) is composed of slow-dried, ground seaweed - cleaned, desalted and dust free. This is a rich organic source of over 70 trace minerals (including calcium, magnesium, sulfur, and chlorine) as well as vitamins, amino acids and plant hormones. It is an excellent soil additive that stimulates microbial activity and provides a strong supply of naturally chelated nutrients.

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

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





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.	\$5.49
1300201	Down To Earth Acid Mix - 5 lbs.	\$16.49

DTE All Purpose Mix, 4-6-2

Fertilizer For All Of Your Growing Needs!

1300209	Down To Earth All Purpose Mix Mini - 1 lb.	\$5.49
1300207	Down To Earth All Purpose Mix - 5 lbs.	\$16.49

DTE Bat Guano, 7-3-1

High-Nitrogen Fertilizer From Bat Guano.

1300006	Down To Earth Bat Guano Mini - 4 oz.	\$5.49
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 - 8 oz.	\$5.49
1300304	Down To Earth Blood Meal - 4 lbs.	\$20.99

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.	\$17.49
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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.	\$5.49
1300296	Down To Earth Citrus Mix - 5 lbs.	\$17.99

DTE Crab Meal, 4-3-0

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

1300227	Down To Earth Crab Meal - 4 lbs.	\$15.49
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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.	\$5.49
1300287	Down To Earth Fish Bone Meal - 5 lbs.	\$16.99



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 - 8 oz.	\$5.49
1300282	Down To Earth Kelp Meal - 4 lbs.	\$25.99

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.	\$5.49
1300231	Down To Earth Rose & Flower Mix - 5 lbs.	\$17.49

DTE Vegan Mix, 3-2-2



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

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

SOIL AMENDMENTS



DTE Azomite Powder, 0-0-0.2



The A To Z Of Minerals Including Trace Elements.

1309300	Down To Earth Azomite Powder - 1 lb.	\$4.79
1309301	Down To Earth Azomite Powder - 5 lbs.	\$13.99

DTE Azomite Granulated, 0-0-0.2



The A To Z Of Minerals Including Trace Elements.

1309320	Down To Earth Azomite Granulated - 5 lb.	\$14.98
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DTE Granular Humic Acids



Highly Concentrated & Easy To Use!

1300320	Down To Earth Granular Humic Acids - 1 lb.	\$4.79
1300321	Down To Earth Granular Humic Acids - 5 lbs.	\$13.49
1300322	Down To Earth Granular Humic Acids - 25 lbs.	\$39.99

DTE Langbeinite, 0-0-22



Dose Your Soil With This Before Planting – Your Plants Will Love You For It.

1300263	Down To Earth Langbeinite - 5 lbs.	\$17.49
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DTE Rock Phosphate, 0-3-0



Dose Your Soil With This Before Planting – Your Plants Will Love You For It.

1300269	Down To Earth Rock Phosphate - 5 lbs.	\$15.49
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See online for shipping restrictions and larger sizes.

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.

1332756	RootShield Plus WP - 1 lb. Bag	\$150.00
1332757	RootShield Plus WP - 3 lb. Box	\$310.00
1332755	RootShield Plus Granules - 40 lb. Bag	\$485.00

Larger sizes available.

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



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 P₃ 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	\$240.00



Actinovate® AG



Developed For Commercial Ag – Now Available To All Growers.

TARGET: Use to control damping-off, root and stem rot, charcoal rot and wilt caused by many different pathogens. Also controls Downy Mildews and Powdery Mildews.

DESCRIPTION: This organic biological fungicide/bactericide uses a microbe (*Streptomyces lydicus* WYEC 108) for the suppression and control of a wide swath of soil-borne and foliar diseases. This *Streptomyces* strain will colonize the root system and foliage of plants, which will not only displace pathogenic fungi present there, it will protect it from further fungal development. Water-soluble, will not clog machinery and doesn't require constant agitation when applying. 4-hr REI.

SUGGESTED USE: Use in foliar applications, as a soil drench, in irrigation, chemigation, as a dip, and more. Do not use at temperatures below 45°F. Foliar Spray: Mix with 10-150 gals water/acre (in CA, mix with 20-150 gals water/acre). Apply initial application prior to disease onset or in the early stages of disease development. Crop-specific instructions on label.

1420012	Actinovate AG - 18 oz. Bag	\$145.00
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Cannot be shipped to the following states: DC, HI, MD, MN, MS, OK, VA, VT



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.	\$82.00
1332767	MilStop SP Foliar Fungicide - 25 lbs.	\$300.00



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*, *Rhizoctonia*, *Pythium*, *Phytophthora* and more.

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

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

1332724	Cease - Gallon	\$115.00
1332727	Cease - 2.5 Gallons	\$235.00
1332725	Cease - Gallon, Case of 4	\$414.00
1332728	Cease - 2.5 Gallons, Case of 2	\$440.00



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	\$50.00
1332982	Mycostop - 25 grams	\$150.00

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



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	\$31.49
1458200	Complete Disease Control - 8 oz. Concentrate	\$12.99
1458201	Complete Disease Control - Pint Concentrate	\$18.49
1458202	Complete Disease Control - Gallon Concentrate	\$96.99

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



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	\$140.00
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BONIDE® Liquid Copper Fungicide

Use For The Control & Prevention Of Many Fungal Diseases!

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

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



SUGGESTED USE: 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	\$19.99
1455106	BONIDE Liquid Copper Fungicide - 32 oz. RTS	\$36.00
1455101	BONIDE Liquid Copper Fungicide - 16 oz. Conc.	\$18.99

Concentrate (SKU 1455101) cannot be shipped to the following states: AK, DC



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*, *Sclerotinia* 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.

Organocide® Plant RX

It Cures & Prevents the Diseases That Sicken Your Plants.

TARGET: *Pythium*, *Phytophthora*, powdery and downy mildews, Anthracnose, blights, leaf spots, root rot and more.

DESCRIPTION: This fungicide uses a systemic action to move the product throughout the plant's system to attack diseases it comes across and prevent further disease development above and below the ground. The active ingredient is Mono- and di-potassium salts of Phosphorous Acid, which provides a nutritional jolt that will increase metabolism. Can be used on ornamentals, fruit and citrus trees, vegetables and more.

NEW



SUGGESTED USE: Use as a foliar spray, soil drench, soil incorporation, basal bark application and bare root dip. Apply before diseases develop. Do not apply to plants/trees that are stressed by heat or moisture or are in dormancy. Foliar spray: Apply with sufficient water volumes for adequate coverage of foliage. Application rates are crop and disease specific.

1150072	16 oz. Conc.	\$26.46
1150073	32 oz. Conc.	\$43.73
1150074	Gallon Conc.	\$166.00
1150075	2.5 Gallon Conc.	\$390.98

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

Stargus™

From A Leader in Bio-Innovations Comes This Triple-Action Biofungicide.

TARGET: Foliar and soil-borne plant diseases like downy mildew, *Botrytis*, *Fusarium*, white mold and many more.

DESCRIPTION: This organic biological fungicide uses *Bacillus amyloliquefaciens* strain F727 to deliver several modes of action against fungal and bacterial pathogens. Stargus uses the *Bacillus* rhizobacterium to colonize root and plant surfaces, which prohibits the pathogens from accessing the plant. It also has a protective effect by inducing a systemic resistance and acquired resistance response within the plant and a curative effect by inhibiting mycelial growth and sporulation of the fungus on the leaf surface. MRL exempt. O-day PHI and 4-hr REI.

SUGGESTED USE: Can be used alone or in rotation. Labeled rates of 2 quarts to 4 quarts/acre. Usual recommendation of 2 qts/acre. Apply 2-4 times at 7-10 day intervals.



1332975	Stargus - 2.5 Gallons	\$200.00
1332976	Stargus - 2.5 Gallons - Case of 2	\$360.00





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.

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® HC



Clean Up & Protect Your Plants With One Powerful Product.

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

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

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

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

Cannot be shipped to the following states: DC



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.



WEED BARRIERS

WeedGuardPlus® - Heavy Weight Rolls

This Tough Weed Block Will Hold Up Under The Elements!

TARGET: Use for weed suppression.

DESCRIPTION: This paper weed block 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	\$20.99
1453859	EcoMulch - 36" x 50' rolls - 2 pk - Creped	\$28.99



PRE-EMERGENT

Gluten-8

A Liquid Pre-Emergent Herbicide That Provides Control Of Weeds In Both Turf And Beds.

TARGET: Crabgrass and other broadleaf weeds including dandelions and clover.

DESCRIPTION: Formulated from corn gluten meal, this pre-emergent delivers organic proteins into soil that prevent weeds from growing. This liquid formulation can be applied with a sprayer three weeks before or after seeding. Pre-emergents work best before weed germination in late spring.

SUGGESTED USE: Mix 32 ounces of concentrate with 1.5-2 gallons of water to treat 1,000 sq. ft., agitate before use, wait 24 hours to irrigate and do not apply if rain is expected.

1273010 Gluten-8 - Gallon

Case sizes available.

\$61.00



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

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

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

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

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

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





Tip: How to Choose the Right Weed Control Product

Selective Weed Control: Use this type of product to control weeds in lawns or near other valuable plants as it will only kill targeted broadleaf weeds.

Broad Spectrum Weed Control: Choose a non-selective herbicide option for areas like sidewalks, around buildings or patios for comprehensive weed control eliminates most plants it is applied to.

Planning ahead? Consider utilizing a "pre-emergent" product early in the spring to prevent weeds from establishing by inhibiting root growth. For more preventative and post-emergent weed control options, see online.

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.



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

BROAD SPECTRUM

Torched Weed Killer



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

TARGET: Unwanted grasses and weeds.

DESCRIPTION: The combination of Clove Oil, Cornmint Oils and soaps offers effective control of unwanted weeds and grasses. When used as directed, Torched is safe for use our people and pets. This non-selective, post emergent herbicide works best at temperatures over 60°F and generally only takes one application (except for those especially tough weeds). It begins working on contact and does not stop until it has killed down to, and including, the root.

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



1453890	Torched Weed Killer - Gallon	\$74.00
1453891	Torched Weed Killer - 2.5 Gallons	\$149.00

Organocide Weed Taliator™ Weed & Grass Killer



A Powerful Surfactant Creates Systemic Action to Kill to the Root

TARGET: Dandelion, crabgrass, ragweed, purslane, chickweed and more

DESCRIPTION: Weed Taliator is a non-selective herbicide that uses the power of essential oils delivered with a unique surfactant to tackle weeds and grasses down to the root. Use Weed Taliator on unwanted weeds or grasses around driveways, walkways, gravel beds, fence lines and more. OMRI Listed and safe to use around homes and gardens when used as directed. Available in Ready to Use and Concentrate sizes.

SUGGESTED USE: Apply only to unwanted weeds or grasses and protect any desirable plants. For best results apply after morning dew, in full sun, and when temperatures are above 60°F. Spray Ready to Use product on plants until wet. Mix Concentrate product with 6-20 oz per gallon of water. Shake well before and during application.



1453730	Weed Taliator – 24 oz. RTU	\$13.05
1453731	Weed Taliator – Gallon RTU	\$65.23
1453732	Weed Taliator – 16 oz. Conc	\$15.60
1453733	Weed Taliator – 32 oz. Conc	\$24.67
1453734	Weed Taliator – Gallon Conc	\$87.82

Cannot be shipped to the following states: ID, IA, IN, NM

BROAD SPECTRUM

Avenger® Weed Killer

Fast-Acting Natural Herbicide.

TARGET: Broadleaf, crab grass and other unwanted weeds.

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

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

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

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



Avenger® AG Optima Burndown Herbicide



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

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

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

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

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

Cannot be shipped to the following states: CA



BONIDE® Captain Jack's™ Deadweed Brew



Uses Caprylic Acid To Quickly & Safely Kill Unwanted Vegetation

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

DESCRIPTION: This non-selective herbicide can be used anytime of the year but works best during warm and dry conditions. Can be applied virtually anywhere around the home and garden to control existing weeds, either before or after planting. Will not translocate. Pint bottle treats up to 1,600 sq. ft. and quart treats up to 3,200 sq. ft. Pint makes up to 4 gals finished spray; qt makes up to 8 gals and gal makes up to 32 gals.

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

1453780	Deadweed Brew - Pint Concentrate	\$19.99
1453781	Deadweed Brew - Quart Concentrate	\$32.99
1453786	Deadweed Brew - Gallon Concentrate	\$149.99



Homeplate®



A Fast-Acting Non-Selective Herbicide That's A Total Vegetation Killer.

TARGET: Common annual, biennial and perennial broadleaf weeds as well as algae and moss.

DESCRIPTION: This OMRI listed organic spray is a blend of caprylic acid and capric acid that spreads easily for thorough coverage and causes rapid weed burndown. Total kill is generally within 12-72 hours. If rain falls within 3 hrs of treatment, an additional spray may be required. For best results, use during sunny or warm conditions. Optimize your spray coverage and target small weeds. For use in and around all food and non-food crops. 24-hr REI & 0-day PHI.

SUGGESTED USE: Can be used in pre/post-planting applications, sucker control, trimming and pruning, as a harvest aid and as a desiccant. Not for use in any kind of irrigation system. Use 3% solution for weeds under 5" tall and for moss and algae. Use 3-6% solution for larger perennial weeds and grasses. Use 5-9% solution for tough to kill weeds, vines, brush and sucker control. Apply the mixed solution at 0.69-9.2 gallons/1,000 sq. ft. (35-400 gallons/acre). In situations where weed pressure is high and/or weeds are larger than 5 inches, higher volumes are advised for acceptable control. Repeat treatment as needed to control new weeds.

1453895	Homeplate - 2.5 Gallons	\$195.00
1453896	Homeplate - 2.5 Gallons (Case of 2)	\$351.00



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

Dustin-Mizer



Apply Dusts Wherever You Need Them.

DESCRIPTION: This ingenious applicator is a lightweight tool for applying insecticidal and fungicidal dusts to your garden, but it is equally useful when applying Diatomaceous Earth and other dusts to your barn, chicken coops, kennels and elsewhere. The Dustin-Mizer is built to last with a cleverly-designed extension deflector that allows you to dispense dust up under leaves, underneath boards/structures, and in hard-to-reach places like crawl spaces and attics.



SUGGESTED USE: Assemble product before using. Wear a mask and follow any additional dust product safety instructions. Fill hopper with dust product. Point at desired area while turning the handle at a constant speed.

1407001	Dustin-Mizer	\$49.95
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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	\$16.99

Sprayers can be used to apply Beneficial Nematodes, Foliar Fertilizers, Insecticides & Herbicides.

Consider separate sprayers to avoid contamination!

ThermX™-70 Natural Wetting Agent



Overcome Adverse Water Conditions!

TARGET: Increases water & fertilizer uptake.

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

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

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

1402403	ThermX-70 Natural Wetting Agent - Quart	\$27.50
1402404	ThermX-70 Natural Wetting Agent - Gallon	\$94.50
1402405	ThermX-70 Natural Wetting Agent - 5 Gallons	\$370.00
1402406	ThermX-70 Natural Wetting Agent - 55 Gallon Drum*	CALL

*Call for freight quote. Call for larger sizes.



Boogie Blue Water Filters

A Great Grow Deserves Great Water.

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

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



Prococo Coco Coir

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

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

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

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

1305580	Prococo Compressed CocoPeat Block - 10 lbs.	\$16.95
1305582	Prococo Compressed Chips-N-Fiber Block - 10 lbs.	\$16.95
1305581	Prococo Compressed CocoChip Block - 10 lbs.	\$16.95



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.

TARGET: Untested soils with unknown amounts of pH, moisture or access to light.

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	\$9.99
1275221	Active Air 3-Way Meter (Moisture/Light/pH)	\$10.89



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.	\$28.50
1287901	Chase Granular Mole & Gopher Repellent - 32 lbs.	\$92.00

DEER CONTROL

Deer Guard Ribbon, Cards and Strips

NEW

Odorless, Season Long Protection From Deer For Your Plants.

DEER GUARD™



TARGET: Use to protect plants growing in beds, rows, pots or trees from deer.

DESCRIPTION: Available in 3 pre-coated styles, Deer Guard repellent is ready-to-use right out of the box and lasts all season due to its durability and weather resistance. Powered by hydrolyzed feather meal and capicum and spice blends, Deer Guard repellent is odorless to humans, but repellent to deers through both smell and taste. Use ribbon rolls, cards or strips in your garden bed, on shrubs or container plants or mix and match for maximum coverage.

SUGGESTED USE: For containers, use Deer Guard Cards (and included wire holders) to position card near buds/blooms. Use strips to loop around branches or foliage and they will move with the plant as it grows. Ribbons are best for rows of plants, shrubs and trees.

1264068	Deer Guard Strips - 1.25" x 12" - 24pk	\$19.95
1264065	Deer Guard Cards - 4" x 6" - 12pk	\$27.95
1264060	Deer Guard Ribbon - 150'	\$24.95
1264061	Deer Guard Ribbon - 500'	\$59.95



Bonide Repels-All Animal Repellent - Liquid

1287605	32 oz. RTS	\$26.49
1287600	32 oz. Conc.	\$20.99

Bonide MoleMax Mole & Vole Repellent

1287907	Quart RTS	\$17.99
1287908	5 lbs.	\$15.49

FIRE ANT CONTROL

Fertilome® Come And Get It II Fire Ant Killer

Kills The Whole Colony And Its Queen.

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

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



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

1460020 Fertilome Fire Ant Killer - 1 lb. Bag **\$22.99**

Cannot be shipped to the following states: AK, CA, CO, CT, DE, HI, ID, IL, IN, IA, KY, ME, MD, MA, MI, MN, MT, NV, NH, NM, NY, ND, OH, OR, PA, RI, SD, VT, WA, WV, WI, WY, DC

Orange Guard® Fire Ant Control

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

TARGET: Fire ants.

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



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

1460005 Orange Guard Fire Ant Control - Gallon **\$32.75**

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

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.



Dr. Earth® Final Stop® Pest Control Killer Spray

Works Fast & 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 **\$16.99**



Orange Guard® Home Pest Control



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

TARGET: Crawling pest insects.

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



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

1460001	Orange Guard Pest Control - 32 oz. RTU Spray Bottle	\$11.49
1460002	Orange Guard Pest Control - 1 Gallon with Sprayer	\$36.49
1460003	Replacement Sprayer for 1 Gallon Orange Guard	\$5.30

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	\$11.99
1218260	Perma-Guard Crawling Insect Control - 5 lb. Bag	\$18.99

Case sizes available.

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

Essentria™ G Granular Insecticide

A Granular That Handles A Handful Of Outdoor Pests!

TARGET: Ants, 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.	\$73.00
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Essentria® IC Pro



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

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

DESCRIPTION: Derived from botanical oils, this earth-friendly product will repel and kill a wide variety of insects in all sorts of locations. Formulated for maintenance control as well as active infestations. This water-based formula is made from food-grade inerts, has a light fragrance and is safe for use in food prep areas. For cannabis, hemp and unspecified food crop use. Safe around livestock. FIFRA 25(b) exempt.



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

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

INDOOR PEST TRAPS



Avenger Roach Tablets

Clean & Easy-to-Use Roach Control.

1219566 6 oz. \$2.69

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™ Spider & Insect Trap

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

1280222 2 Pack \$2.50
1280224 2 Pack - Bundle of 5 \$10.00

Harris® Roach Traps

This Pesticide-Free Trap Will Be Their Last Step!

1219552 2 Pack \$6.79

Revenge® Pantry Moth Traps

This Trap Naturally Attracts & Traps Moths Present Near Food Storage!

1280302 2 Traps/2 Lures \$6.99
1280303 2 Traps/2 Lures - Bundle of 3 \$19.92

HOUSEPLANT SUPPLIES



E-Z Root™

At Last! An Organic Rooting Compound Without Hormones.

1202210 E-Z Root - 2 oz. \$7.99

Soil Moist™ Container Mix

Pamper Your Potted Plants With This Dynamic Combo Mix.

1202242 Soil Moist Container Mix - 8 oz \$8.99

Plant Success Organics Granular, 3-1-2

Transplant formula includes beneficial microbes and fertilizer.

2000070 1 oz. \$3.99

Dr. Earth® House Plant Indoor Liquid Plant Food, 1-1-1

Made Using High Quality Food Scraps From Grocery Stores.

1305511 Dr. Earth Organic House Plant Food - 16 oz. \$13.99

Aunt Fannie's Houseplant & Garden Insect Remedy

Ready to Use Spray for Most Common Plant Pests

1460030 Aunt Fannie's Houseplant & Garden Insect Remedy \$10.99

Harris® Potted Plant Insect Traps

Traps Flying Insects & Looks Good Doing It.

1280515 30 Yellow Insect Traps/7 Stakes \$7.99

NemAttack Beads Encapsulated Beneficial Nematodes

No Refrigeration Required
No Mixing Required

See page 14-17 for more information.



FLEAS + LICE



Flea'n Tick B Gone™

Gentle & Fast Control with Plant Based Ingredients.

1452501	16 oz. Ready to Spray	\$19.99
1452502	Gallon Ready to Use	\$63.00

Lice B Gone

Pesticide-Free Treatment for Children & Adults.

1888809	16 oz. Ready to Spray	\$18.97
1888810	Gallon Ready to Use	\$69.95

Aunt Fannie's Pest Powder

Easy-to-Apply for Treatment of Ants, Cockroaches & Fleas

1460035	11.5 oz.	\$10.97
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Avenger® Zone Insect Killer Spray

Indoor/Outdoor Spray for Fleas & More!

1219562	12 oz. Aerosol	\$12.99
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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

BED BUGS



Hygea Extra Strength Bed Bug Treatment Spray

66% Stronger Than Original Hygea.

1219620	24 oz. Ready to Use Spray Bottle	\$40.00
1219621	Gallon Ready to Use	\$95.00

Hygea Extra Strength Bed Bug Laundry Additive

Use on Any Washable Item Throughout the Home.

1219625	32 oz. Conc.	\$45.00
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Harris® Bed Bug Detection Traps

Cost Effective & Easy-to-Use

1240315	4 Pack	\$5.99
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JT Eaton™ Kills Bedbugs Powder

Control Bed Bugs, Fleas & Other Crawling Insects

1219303	7 oz. Puffer Bottle	\$6.99
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JT Eaton™ Stick-Em Bed Bug Detector Traps

Descreet Defense Around Couches & Bedding

1240320	8 Pack	\$10.99
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Oro Valley, AZ 85737-9531

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• Se habla Español

Toll Free: 800-827-2847

International calls: 520-825-9785

Fax: 520-825-2038

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Please be aware that the certified status of a product can change at any time without notification from the manufacturer or OMRI. Although we make every attempt to assure that the status of the products listed as certified organic are current and up-to-date, when purchasing a product we advise you to protect your certification by checking with your certifying agency that it is acceptable or by going online to OMRI at www.omri.org.

LIVE DELIVERY & REFUND POLICY

For products other than live insects: Unused, unopened, undamaged items in original packaging can be returned within 30 days. For full details, see our Return Policy at 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.



ARBICO Organics

10831 N. Mavinee Dr., Ste. 185
Oro Valley, AZ 85737-9531

800-827-2847

Please call for
product availability.



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