

ARBICO *organics*

NATURAL & ORGANIC IPM SOLUTIONS

FALL/WINTER 2025



Sow, Grow & Harvest!



Predatory Insects



Amendments & Fertilizers



Biorational Insecticides



Weed & Disease Control



Serving Growers Since 1979.

ABOUT US

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

Over the years, we have expanded our product line to meet our customers' diversified needs and our team continues to grow to provide our customers with support and knowledge! Providing over forty-five years of environmental stewardship and service to our customers.

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



Co-Founders Rick & Sheri Frey



Assassin Bug
Zelus renardii



Green Lacewing
Chrysoperla rufilabris



Minute Pirate Bug
Orius insidiosus



Rove Beetle
Dalotia coriaria

800-827-2847

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

OFFICE & STORE HOURS:

Monday - Friday: 8:00AM - 4:30PM
(Arizona Time)



Guaranteed Live Delivery



Customer Service



Commitment to Quality

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ARBICO **FLY** 
ELIMINATORS
SERIOUS FLY CONTROL

2026
VIP SPECIAL PRICING

Through 12/31/25



**Your MULTI-PEST
Solution**



PREDATORY INSECTS

POWERFUL PEST CONTROL



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

ADVANTAGES

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



ADVANTAGES

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

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.

FREE SHIPPING



Minute Pirate Bug - *Orius insidiosus*

Excellent General Predator In Field Crops & Greenhouses.

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

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

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

Temperature: 64-82°F

Relative Humidity: Moderate ≈60%

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

Overnight Shipping Required





Green Lacewing - *Chrysoperla* spp.

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



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

DESCRIPTION: Green lacewing are available in all three life stages: egg, larva and adult. Green lacewing larvae paralyze their prey with venom and then draw out the body fluids of the pest into their large hollow jaws. Each lacewing larva will devour 200 or more pests or pest eggs a week during their two to three week developmental period.

Temperature: Minimum: 60°F Best: 75-90°F **Relative Humidity:** 30-50%

Release Rate: Every 7-10 days

GREEN LACEWING EGGS:*

1110011	≈5,000 Eggs	\$27.00
1110016	≈10,000 Eggs	\$37.80
1110012	≈25,000 Eggs	\$75.00
1110013	≈50,000 Eggs	\$123.75

GREEN LACEWING EGGS ON CARDS:

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	\$30.50
1110030	≈5,000 Larvae in 5 Liter Bag	\$115.00
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.

Green Lacewing are an economical addition to IPM programs in gardens and greenhouses for soft-bodied 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.

APHID CONTROL

Aphid Predator - *Aphidoletes aphidimyza*

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

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

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

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

Temperature: Warm 64-77°F

Relative Humidity: Moderate ≈70%

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

Overnight Shipping Required



Aphidoletes aphidimyza

Aphid Parasite - *Aphelinus abdominalis*

These Ravenous Predators Will Eat & Parasitize Aphid Nymphs!

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

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

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

Temperature: 70-77°F

Relative Humidity: Low-High ≈60-80%

1101101	≈250 Mummies	\$92.50
1101103	≈1,000 Mummies	\$235.00

Overnight Shipping Required



Aphelinus abdominalis

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



Aphidius colemani

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 (*Sitobian 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



Aphidius ervi



Integrated Pest Management of Whiteflies

1. Carefully inspect new plants before transplanting.
2. Dip foliage and root ball in soapy water, or hydrogen peroxide solution, to clean and kill any existing whitefly eggs, nymphs or adults.
3. Monitor pest thresholds with yellow sticky traps or ribbons.
4. Release Green 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.

FUNGUS GNAT CONTROL



Integrated Pest Management of Fungus Gnats

1. Monitor and trap with yellow sticky traps to assess the severity of infestation.
2. Control soil moisture by providing proper drainage, avoiding standing water and allowing media to dry between waterings.
3. Circulate air and prune plants to ensure adequate air flow.
4. Prevent and treat infestations with *Bacillus thuringiensis israelensis* (see page 29).
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 (sciarid flies), thrips and shore flies.

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



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

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

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 23 or shop website for full selection.



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	\$35.00
1152233	≈50,000 in Bran only	\$47.00
1152224	≈50,000 in Vermiculite only	\$47.00
1152204	≈50,000 in Bran/Vermiculite Mix	\$47.00
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 CONTROL

Mite Predator - *Amblyseius andersoni*

Great For Pre-Emergent Control Of Pest Mite Infestations!

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

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

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

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

BULK SIZES:

1101324	≈25,000 in Tube	\$87.50
1101327	≈50,000 in 1 Liter Bottle	\$150.00
1101321	≈125,000 in 5 Liter Bag	\$325.00

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



Amblyseius andersoni

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	\$87.00
1151271	≈25,000 - 100 Sachets w/Hooks	\$105.00
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	\$155.00
1151277	≈125,000 - 500 Sachets w/Hooks	\$255.00
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



Neoseiulus (=Amblyseius) californicus

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	\$85.00
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Overnight Shipping Required



Feltiella acarisuga

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
1151412	≈2,000 Count	\$80.00
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%

1113310	≈100 Count	\$140.00
1113312	≈200 count (2 x 100)	\$240.00

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: 68-81°F **Relative Humidity:** High: 60-90%

P. PERSIMILIS PLUS BULK SIZES:

1151255	PLUS ≈ 25,000	\$78.00
1151256	PLUS ≈ 50,000	\$137.50

P. PERSIMILIS PLUS CONTROLLED RELEASE:

1151235	PLUS ≈5,000 in 50 sachets w/hooks	\$54.00
1151236	PLUS ≈10,000 in 100 sachets w/hooks	\$105.00
1151230	PLUS ≈25,000 in 250 sachets w/hooks	\$230.00
1151231	PLUS ≈50,000 in 500 sachets w/hooks	\$400.00

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

MITE & MEALYBUG CONTROL

MiteMix

A Powerful Blend of Predatory Mites for Multi-Pest Coverage

TARGET: Cyclamen mites, broad mites, russet mites, two-spotted spider mites, red spider mites, tomato russet mites, rust mites, hemp russet mites, western flower thrips, onion thrips, glasshouse whiteflies, tobacco whiteflies, silverleaf whiteflies

DESCRIPTION: MiteMix was designed for growers facing multiple or varied pest infestations of mites, thrips and/or whiteflies. These strategic blends of 3 or 4 predator options provide control across multiple pest life stages and changing conditions in the growing environment.

INCLUDED PREDATORS: *Neoseiulus californicus* (see pg 10), *Amblyseius swirskii* (see pg 9), *Neoseiulus cucumeris* (see pg 9) and **optionally** *Amblyseius andersoni* (see pg 10). See specific pests for more information. Maximize efficiencies in your operation by applying multiple biological control agents in one application!

- 1151301 MiteMix CSC125 ≈125,000 Mixed Mites **\$170.00**
- 1151300 MiteMix CSCA150 ≈150,000 Mixed Mites **\$180.00**

Overnight Shipping Required



Mite Predator - *Galendromus occidentalis*

G. occidentalis is an effective predatory mite for control of spider mites and other mite species in high temperature, low humidity environments. They are more suited than other predators for use on plants with hairy leaves. *G. occidentalis* is also able to sustain itself on pollen in the absence of a large pest population making it advantageous in a preventive release setting.

See website for specification, sizes and ordering.



NEW



Neoseiulus (=Amblyseius) californicus



Amblyseius swirskii



Neoseiulus (=Amblyseius) cucumeris

MEALYBUG/SCALE CONTROL

Red Scale Parasite - *Aphytis melinus*

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

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

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

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

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

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

Overnight Shipping Required



Aphytis melinus

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



Cryptolaemus montrouzieri

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 ≈1,000,000 **\$225.00**

CONTROLLED RELEASE - DISPENSERS:

1131059 ≈7,500 - 3 Dispensers **\$22.00**

1131060 ≈12,500 - 5 Dispensers **\$25.00**

1131061 ≈25,000 - 10 Dispensers **\$37.50**

1131062 ≈62,500 - 25 Dispensers **\$50.00**

1131065 ≈125,000 - 50 Dispensers **\$90.00**

CONTROLLED RELEASE - CAPSULES:

1131077 ≈5,000 - 5 Capsules **\$20.00**

1131078 ≈10,000 - 10 Capsules **\$30.00**

1131070 ≈30,000 - 30 Capsules **\$37.50**

1131071 ≈60,000 - 60 Capsules **\$60.00**

1131075 ≈90,000 - 90 Capsules **\$67.50**



Trichogramma brassicae

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

CARDS:

1131910 ≈10,000 (3 Tabs) **\$22.00**

1131903 ≈20,000 (6 Tabs) **\$25.00**

1131911 ≈100,000 - 1 Card (30 Tabs) **\$46.00**

BULK EGGS:

1131950 ≈100,000 **\$40.00**

1131955 ≈1,000,000 **\$250.00**

CONTROLLED RELEASE - DISPENSERS:

1131960 ≈7,500 - 3 Dispensers **\$22.00**

1131961 ≈10,000 - 5 Dispensers **\$25.00**

1131962 ≈25,000 - 10 Dispensers **\$37.50**

1131963 ≈62,500 - 25 Dispensers **\$50.00**

1131965 ≈125,000 - 50 Dispensers **\$90.00**

CONTROLLED RELEASE - CAPSULES:

1131969 ≈13,500 - 5 Capsules **\$20.00**

1131970 ≈27,000 - 10 Capsules **\$25.00**

1131971 ≈67,500 - 25 Capsules **\$47.25**

1131972 ≈135,000 - 50 Capsules **\$67.50**

1131975 ≈270,000 - 100 Capsules **\$108.00**

Trichogramma minutum

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

CARDS:

1129001 ≈10,000 (3 Tabs) **\$22.00**

1129003 ≈20,000 (6 Tabs) **\$25.00**

1129010 ≈100,000 - 1 Card (30 Tabs) **\$46.00**

BULK EGGS:

1129050 ≈100,000 **\$40.00**

1129051 ≈200,000 (2 x 100k) **\$70.00**

1129052 ≈500,000 (5 x 100k) **\$150.00**

1129055 ≈1,000,000 **\$250.00**

Trichogramma platneri

West of the Rockies, orchards and tall crops.

CARDS:

1130001 ≈10,000 (3 Tabs) **\$22.00**

1130003 ≈20,000 (6 Tabs) **\$25.00**

1130030 ≈100,000 - 1 Card (30 Tabs) **\$46.00**

BULK EGGS:

1130050 ≈100,000 **\$40.00**

1130051 ≈200,000 (2 x 100k) **\$70.00**

1130052 ≈500,000 (5 x 100k) **\$150.00**

1130055 ≈1,000,000 (10 x 100k) **\$250.00**

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

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*

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.

Apply To Soil For Control Of Target Pests:

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





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.

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.

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.

BENEFICIAL NEMATODES

NemaSeek™ *Heterorhabditis bacteriophora* (Hb) Beneficial Nematodes

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



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	●
Chafer (European, masked)	▲ ★	Fungus Gnats	■ ▲ ●	Raspberry Crown Borer	■	Western Flower Thrips	■ ●
Citrus Root Weevil	▲ ★	Gall Midges	▲	Red Flower Beetle	★	Wireworm	●
Codling Moth	● ■	Grape Root Borers	▲	Root Maggots	■	Wood Borers	●



Beneficial Nematodes



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

- ★ = NemAttack™ *Steinernema riobrave* (Rr)
- ◆ = 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	\$45.00
◆ 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	\$45.00

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



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	\$5.79
1254502	ARBICO Organics Yellow Insect Traps - 10 Pack	\$10.99
1254503	ARBICO Organics Yellow Insect Traps - 25 Pack	\$27.59
1254504	ARBICO Organics Yellow Insect Traps - 50 Pack	\$54.99
1254510	ARBICO Organics Yellow Insect Traps - 100 Pack	\$87.50



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

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



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



Yellow Sticky™ Tape

Longer Length Tape To Cover Even More Area.

TARGET: Whiteflies, aphids, leaf-hoppers, fungus gnats, froghoppers (spittlebugs), flies and more.

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

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

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

*Larger quantities available.



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	\$5.79
1254552	ARBICO Organics Blue Insect Traps - 10 Pack	\$10.99
1254553	ARBICO Organics Blue Insect Traps - 25 Pack	\$27.59
1254554	ARBICO Organics Blue Insect Traps - 50 Pack	\$54.99
1254560	ARBICO Organics Blue Insect Traps - 100 Pack	\$70.00



Tanglefoot® Tangle-Trap® Sticky Coating

Create New Or Re-Use Old Traps To Control & Monitor Pest Insects.

TARGET: Ants, flies, beetles and other insects.

DESCRIPTION: This versatile brush-on adhesive is ready-to-use to control and monitor pest insects. It can be used to re-coat old traps for continued use or to coat new traps. Apply to commercially made traps or create your own from almost any non-porous material. This clear and odorless product will not interfere with any color attractants or lures you may choose to use.

SUGGESTED USE: For ease of use, use at temperatures above 60°F. Apply a thin (1/16" or 1.6 mm) coating to trap surface. Tie up your trap or attach to a stake and place in desired location in your garden, greenhouse, yard, orchard or field. Suspending traps in the air will help to avoid accidental contact with children or pets.

1266020	Sticky Coating - 8 oz. Brush-On Can	\$12.99
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BEETLE & GRUB CONTROL

JAPANESE BEETLE CONTROL

BIOLOGICAL GRUB 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. **\$34.99**
- 1216040** Milky Spore Powder - 40 oz. - Covers ≈1/4 acre **\$93.49**
- 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.



NemaSeek™ Hb & NemAttack™ Sr Beneficial Nematodes

Control Soil Pests in Turf & Garden

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.

NemaSeek *Heterorhabditis bacteriophora*

- 1220300** ≈5 million **\$36.00**
- 1220301** ≈10 million **\$42.95**
- 1220302** ≈50 million **\$72.00**

NemAttack *Steinernema riobrave*

- 1220410** ≈5 million **\$40.00**

Milky Spore Is Also Available As Granules. Great For Lawn & Turf!





GRUB & BEETLE CONTROL

BEETLE CONTROL

AzaGuard®



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

1222204	AzaGuard - 32 oz.	\$275.00
1222206	AzaGuard - Gallon	\$1,000.00

See page 31 for more information.

BioCeres® WP



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

1332891	BioCeres WP - 1 lb. Bag	\$87.00
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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 page 31 for more information.

BotaniGard® 22WP



Beauveria bassiana Mycoinsecticide Wettable Powder

1341000	BotaniGard 22WP - 1 lb.	\$95.00
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See page 29 for more information.

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 page 30 for more information.

Molt-X®



An Excellent Spray With Multiple Modes of Insecticidal Action.

1332771	Molt-X - Quart	\$250.00
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See online for more information.

Monterey Take Down Garden Spray

Pyrethrins & Canola Oil For Effective Insect Control!

1257917	Take Down Garden Spray RTU - Quart	\$14.99
1257915	Take Down Garden Spray Concentrate - Pint	\$25.99

See online for more information.

PyGanic® Gardening

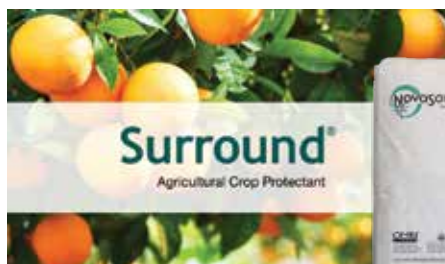


Rapid Knockdown & Kill For Outdoor Pests In Your Garden.

1288710	PyGanic Gardening - 8 oz.	\$28.00
1288730	PyGanic Gardening - Gallon	\$236.00

See page 31 for more information.

See online for shipping restrictions and larger sizes.



Surround WP: Koalin Clay Crop Protectant

- Protects fruit from sunburn damage
- Where allowed, SURROUND suppresses insects such as grasshoppers and beetles
- Improves overall plant growth under heat stress

CATERPILLAR CONTROL

DiPel® Pro DF & DiPel® DF

Dry, Flowable Lepidopteran Control in Crops & Ornamentals.

TARGET: Caterpillars, armyworms, bagworms, budworms, loopers, Spangy 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.	\$25.50
1207006	DiPel DF - 1 lb.	\$24.75
1207004	DiPel DF - 5 lbs.	\$119.50

Monterey B.t.

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

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

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

SUGGESTED USE: Apply when infestations are in first stages, making applications every 5-7 days until control is reached. Apply directly to all sides of foliage that is being affected by target pest. Fully mix with water and continue agitation during applications and reapply if heavy rain occurs after application. For fruits and vegetables, mix about 2-3 fl. oz. per gallon of water for about 1,000 sq. ft. For ornamentals and trees, mix about 2 fl. oz. per 3 gallons of water. Now available in no-dilute Ready-To-Use and Ready-To-Spray versions.



1201213	Monterey B.t. - 32 oz. RTU	\$16.99
1201214	Monterey B.t. - 32 oz. Hose-End RTS	\$29.99
1201209	Monterey B.t. Concentrate - 8 oz.	\$14.49
1201210	Monterey B.t. Concentrate - Pint	\$16.99
1201211	Monterey B.t. Concentrate - Quart	\$27.99
1201212	Monterey B.t. Concentrate - Gallon	\$105.49

Cannot be shipped to the following states: SKUs 1201213 (RTU), 1201214 (RTS): 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
1201202	BONIDE Thuricide Liquid Concentrate - 16 oz.	\$16.99



For biological control of caterpillars, see page 13

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 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 method. 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.



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.



Mosquito Bits®

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

TARGET: Mosquito and fungus gnat larvae.

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

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

1211108 Mosquito Bits - 8 oz. **\$10.95**
1211136 Mosquito Bits - 30 oz. **\$17.80**
1211130 Mosquito Bits - 20 lbs. **\$119.00**
1211139 Mosquito Bits & Dunks Combo Kit **\$24.90**



ARBICO Organics® Fungus Gnat Control Bundle

Fight Fungus Gnats in Every Life Stage for Maximum Control

This Fungus Gnat Control Bundle provides what you need to trap, monitor, and control fungus gnat populations without using chemical sprays.

All of the products contained in the bundle are compatible with Fungus Gnat Predators (see pg 8) including Sf Beneficial Nematodes, ARBICO Organics Yellow Sticky Traps and Mosquito Bits.

3003200 Bundle 1 **\$46.35**
 Sf Nematodes 5 million, 8 oz. Mosquito Bits, 10 Pack Yellow Sticky Traps

3003200 Bundle 2 **\$70.67**
 Sf Nematodes 10 million, 30 oz. Mosquito Bits, 25 Pack Yellow Sticky Traps





ARBICO FLY ELIMINATORS[®]

SERIOUS FLY CONTROL

WHAT ARE FLY ELIMINATORS?

The Sensible Alternative To Pesticides

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

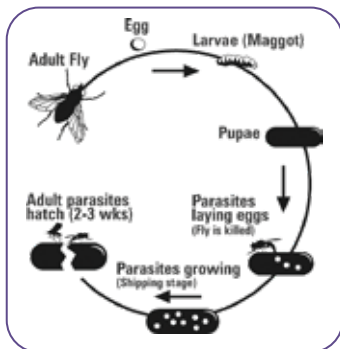


Adult Fly Eliminator emerging from fly pupa.

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

HOW DO FLY ELIMINATORS WORK?

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



Life cycle of the fly parasite.

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

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



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.



i Use Your Fly Eliminators the RIGHT Way:

RIGHT Time

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

RIGHT Place

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

RIGHT Amount

- ☑ The more Fly Eliminators, the fewer the flies

RIGHT Schedule

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

SPECIAL PRICING

LOCK IN THE LOWEST PRICES FOR 2026 PROGRAMS! Sign up NOW & Pay LATER!

Only \$21.95 Per Shipment for 2-5 Horses USPS Shipping Included* in Prices!

Number of Horses/Animals	Suggested Units†	VIP Price Per Shipment
1	1/4 Unit	\$16.99
2 - 5	1/2 Unit	\$21.95
6 - 10	1 Unit	\$34.00
11 - 15	1 1/2 Units	\$45.00
16 - 20	2 Units	\$56.95
21 - 25	2 1/2 Units	\$68.47
26 - 30	3 Units	\$78.10
31 - 35	3 1/2 Units	\$89.00
36 - 40	4 Units	\$98.99
41 - 45	4 1/2 Units	\$109.98
46 - 50	5 Units	\$115.00
51 +	Please Call 1-800-827-2847	

VIP Pricing Valid Through Dec. 31, 2025


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. © 2025 Arizona Biological Control, Inc.

“

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

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

”



FREE SHIPPING

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.



The Amazing Doctor Zymes Poultry Guard

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 severally 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



PRINCIPLE™ WP

OMRI Listed. A Superior *Beauveria bassiana* Formulation.

TARGET: Common soft-bodied insects like Whiteflies, Thrips and Aphids. Also effective on harder to control insects like Psyllids, Mealybugs, Beetles, Weevils and even Grasshoppers.

DESCRIPTION: Principle WP is an excellent choice for all kinds of growers. It's active ingredient, *Beauveria bassiana*, has been used in biocontrol for decades with great success. This exceptional low-dust, wettable powder formulation offers best-in-class efficacy combined with improved mixability for better application and use. Scant leaf residue. No risk of resistance development and no known phytotoxicity. 4-hr REI, 0-Day PHI.

SUGGESTED USE: Can be used on cannabis, hemp, turf, ornamentals, food and non-food crops in greenhouses or fields. Aerial, ground, drip, dip and spray applications. Great compatibility with other inputs. Apply at first sign of infestation. No limit to the number of applications per season. For whitefly and aphid infestations on food and non-food crops: 0.5-1 lb. per 100 gals. of water. For thrips: 1-2 lbs. per 100 gals. water. See product label or the DOCS tab on our website for more specifics.

1342000 PRINCIPLE WP **\$90.00**

Cannot be shipped to the following states: CA, FL, IA, MA, MI, NM, NY, OR, PR, SD, TX, VA.
Cannot ship via USPS.



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**
1332778 EpiShield – 2.5 Gal **\$2,304.00**



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.

1332997 8 oz. **\$62.00**
1332998 34 oz. **\$215.00**

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



INSECTICIDES

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



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**

Larger sizes available.

See website for current state registrations and restrictions.

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 **\$100.00**
1332806 SuffOil-X - Case of 2 ct./2.5 Gals. **\$180.00**

Larger sizes available.

Shipping Restrictions: AK, DC



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.



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



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



INSECTICIDES

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

**AG+ is OMRI listed and WSDA Certified. 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



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	\$15.49
1257906	Monterey Garden Insect Spray Conc. - 32 oz. RTS	\$45.99
1257901	Monterey Garden Insect Spray Conc. - 8 oz.	\$24.99
1257900	Monterey Garden Insect Spray Conc. - Pint	\$16.99
1257905	Monterey Garden Insect Spray Conc. - Quart	\$42.99
1257910	Monterey Garden Insect Spray Conc. - Gallon	\$124.49



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	\$15.99
1555616	Monterey Neem Oil - 16 oz. RTS	\$36.99
1555613	Monterey Neem Oil - 8 oz. Concentrate	\$18.49
1555614	Monterey Neem Oil - Pint Concentrate	\$32.99
1555618	Monterey Neem Oil - Gallon Concentrate	\$178.49

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



BONIDE® Captain Jack's™ Neem Max

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

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

DESCRIPTION: Made with 70% cold pressed neem oil, this product works as a repellent, a suffocant, an anti-feedant, an insect growth regulator by disrupting the growth/molting process and as a poison if ingested. As a fungicide this product will inhibit mycelial growth by coating the spores, which prevents further spore development. This product will not kill fungal pathogens outright, it will only inhibit further develop so it is crucial to treat the area ahead of a severe infestation. Kills the eggs, larvae & adults.

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

1246610	Captain Jack's Neem Max - 8 oz. Conc.	\$13.99
1246611	Captain Jack's Neem Max - 16 oz. Conc.	\$20.99

Cannot be shipped to the following states: PR



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



AzaGuard®

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

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

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

SUGGESTED USE: For Outdoor Use: apply about 8-21 fl. oz./acre. **For Indoor Use:** apply 8-16 fl. oz./100 gals. Apply using a power, pump or hand-held type sprayer. Spray when pests first appear and repeat at 5-7-day intervals utilizing a sticking agent if needed.

1222204	AzaGuard - 32 oz.	\$275.00
1222206	AzaGuard - Gallon	\$1,000.00
1222208	AzaGuard - 2.5 Gals	\$2,495.00



BotaniGard® MAXX

Beauveria bassiana & Pyrethrins Make A Powerful Team!

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

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

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

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

Case sizes available.



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.	\$28.00
1288720	PyGanic Gardening - 32 oz.	\$64.00
1288730	PyGanic Gardening - Gallon	\$236.00



AMENDMENTS

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.

Mighty Plant™ Instant Compost Tea

Compost Tea Has Never Been Easier.

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



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

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

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

ARBICO Organics® Earthworm Castings

**So Good For Your Garden It's Almost
Magical!**

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

FREE SHIPPING

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.	\$30.00
1135004	ARBICO Organics Root Build 240 - 1 lb.	\$60.00

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



Mycorrhizal Fungi

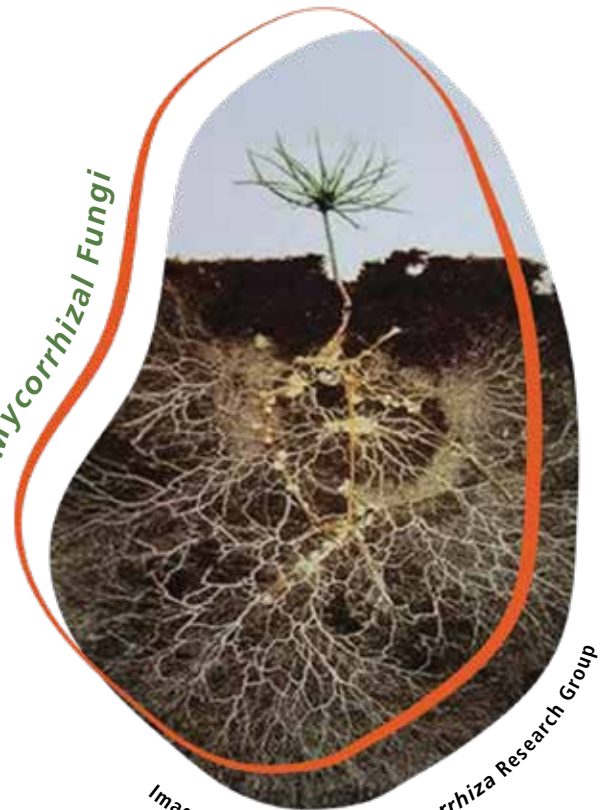


Image credit: Aberdeen Mycorrhiza Research Group



Arber Soil & Root

1314797 4 oz. Shaker **\$15.99**

Armory® SP

1202165 Armory SP - 2 oz. **\$34.99**

1202166 Armory SP - 1 lb. **\$165.45**

E-Z Root™

1202210 E-Z Root - 2 oz. **\$8.49**

1202211 E-Z Root - 8 oz. **\$29.99**

1202212 E-Z Root - 28 oz. **\$99.99**

Mikro-Myco

1202510 Mikro-Myco - 2 oz. Pouch **\$12.49**

1202511 Mikro-Myco - 4 oz. Pouch **\$19.99**

1202512 Mikro-Myco - 5 lb. Pail **\$259.00**

Plant Success Organics Granular™ 3-1-2

2000070 1 oz. **\$3.99**

2000068 4 oz. **\$7.99**

2000069 1 lb. **\$19.99**

FEATURED FERTILIZERS

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. **\$20.97**
- 1314752** AgroThrive Fruiting & Flowering Fertilizer - Gallon **\$31.97**
- 1314753** AgroThrive Fruiting & Flowering Fertilizer - 2.5 Gallons **\$62.97**



AgroThrive™ General Purpose Fertilizer, 3-3-2

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. **\$19.97**
- 1314762** AgroThrive General Purpose Fertilizer – Gallon **\$29.97**
- 1314763** AgroThrive General Purpose Fertilizer – 2.5 Gallons **\$59.97**



Maxicrop® Soluble Seaweed Powder, 0-0-17

Improves Germination & Helps Prevent Diseases.

TARGET: Soils that need additional minerals.

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

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

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



Maxicrop® Kelp Meal, 1-0-2

Successful Growers Choice To Correct Deficiencies & Improve Plant Nutrition!

TARGET: Deficient soils that need macronutrients.

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

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



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 **\$13.49**
- 1315011** Quart **\$20.51**
- 1315013** Gallon **\$49.13**
- 1315014** 5 Gallons **\$161.99**

Larger sizes available.





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**

Plant Thrive

products available
OMRI
LISTED
For Organic Use

18 Strains Of Beneficial Bacteria + 4 Strains of Beneficial Fungi = A Terrific Product.

DESCRIPTION: This microbial-based, granular product was designed to improve soil conditions for vigorous root growth, strong plant establishment, enhanced disease suppression, and increased resistance to plant and environment stress. Each ingredient has unique and valuable characteristics (to fight pathogens, stimulate plant growth, etc.), but when put together they form a synergistic powerhouse of benefits.



SUGGESTED USE: Do not co-apply this product with pesticides, fungicides, herbicides, insecticides, nematicides or fumigants. If you must use them, apply in rotation allowing 5-7 days between application of Plant Thrive and these agents. A small scoop is included for easy measuring of the following rates: For plants up to 8": ½ scoop in the planting hole. Bare root material: lightly dust with product before planting. Pot sizes: 4-8": ½ scoop, 1-2 gal: 1 scoop, 3-4 gal: 2 scoops, 5-10 gals: 3 scoops. Soil drench: Mix ½-¾ scoop/gal water. Foliar spray: same as soil drench. Apply bi-weekly.

1202220 Plant Thrive – 3 oz. **\$11.49**
1202221 Plant Thrive – 28 oz **\$99.99**

NutriRoot®, 2-2-3

A Fertilizer & Water Management Product In One Brilliant Formulation.

DESCRIPTION: This ingenious blend of seaweed extract, nutrients, humic acid, humectants and surfactants provides valuable nutrition and microbial life to the root zone to encourage robust root development through its humectants. It will also enable the soil to extract water from the air and deliver it right to the root zone. Mitigates sand and/or dry soil. Reduces seasonal pressure and hinders water run-off.



SUGGESTED USE: Make applications at transplant, in fall after leaf senescence, in early spring before bud break or in the growing season after leaves on plants have matured. Dilute 1 1/4-1 1/2 fl oz/gal water or 1 gal/ 70-100 gals water. The rate of 1 gal/70-100 gals water will treat up to 3,000 sq ft of landscapes. Use higher rate for newly transplanted trees or for trees with root loss. Use lower rate for routine maintenance and to alleviate drought stress.

1300350 NutriRoot - Conc. - 8 fl. oz. **\$12.99**
1300351 NutriRoot - Conc. - 32 fl. oz. **\$29.99**
1300354 NutriRoot - Conc. - Gallon **\$99.99**

Cannot be shipped to the following states: DC,OR

FERTILIZERS



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

DTE Acid Mix, 4-3-6

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

1300200	Down To Earth Acid Mix Mini - 1 lb.	\$5.79
1300201	Down To Earth Acid Mix - 5 lbs.	\$16.99

DTE All Purpose Mix, 4-6-2

Fertilizer For All Of Your Growing Needs!

1300209	Down To Earth All Purpose Mix Mini - 1 lb.	\$5.79
1300207	Down To Earth All Purpose Mix - 5 lbs.	\$16.99

DTE Bat Guano, 7-3-1

High-Nitrogen Fertilizer From Bat Guano.

1300006	Down To Earth Bat Guano Mini - .25 lb.	\$5.99
1300007	Down To Earth Bat Guano - 2 lbs.	\$17.99
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.	\$20.99
1300261	Down To Earth Bio-Live - 25 lbs.	\$63.59

DTE Blood Meal, 12-0-0

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

1300300	Down To Earth Blood Meal Mini - .5 lb.	\$5.99
1300304	Down To Earth Blood Meal - 4 lbs.	\$23.19

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.	\$18.59
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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.	\$5.79
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.	\$15.99
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DTE Fish Bone Meal, 4-12-0

Marine Based Bone Meal For All Of Your Growing Needs.

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





SOIL AMENDMENTS



DTE Flower Garden, 2-6-5



Make Every Blossom Pop With This Organic Mix.

- 1300360 Down To Earth Flower Garden - 1 lb. \$5.79
- 1300361 Down To Earth Flower Garden - 5 lbs. \$16.99

DTE Fruit Tree, 6-2-4



Turn Backyard Fruit Trees into Super-Producers.

- 1300270 Down To Earth Fruit Tree - 5 lb. \$17.99
- 1300272 Down To Earth Fruit Tree - 15 lbs. \$39.99
- 1300271 Down To Earth Fruit Tree - 25 lbs. \$55.99

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. \$5.79
- 1300231 Down To Earth Rose & Flower Mix - 5 lbs. \$17.99

DTE Vegetable Garden, 4-4-4



Give Your Vegetable Garden A Powerful Nutrient Boost!

- 1300298 Down To Earth Vegetable Garden - 1 lb. \$5.79
- 1300299 Down To Earth Vegetable Garden - 5 lbs. \$16.99
- 1300294 Down To Earth Vegetable Garden - 15 lbs. \$39.99

See online for shipping restrictions and larger sizes.

DTE Azomite Powder, 0-0-0.2



The A To Z Of Minerals Including Trace Elements.

- 1309300 Down To Earth Azomite Powder - 1 lb. \$5.49
- 1309301 Down To Earth Azomite Powder - 5 lbs. \$12.99

DTE Granular Humic Acids



Highly Concentrated & Easy To Use!

- 1300321 Down To Earth Granular Humic Acids - 5 lbs. \$14.59

DTE Azomite Granulated, 0-0-0.2



The A To Z Of Minerals Including Trace Elements.

- 1309320 Down To Earth Azomite Granulated - 5 lb. \$14.59

DTE Langbeinite, 0-0-22



Potassium, Magnesium & Sulfur — All in a Water-Soluble Form

- 1300263 Down To Earth Langbeinite - 5 lbs. \$17.99

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. \$15.39

DISEASE CONTROL

Cease® Biological Fungicide

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

TARGET: *Alternaria*, Anthracnose, *Botrytis*, *Didymella bryoniae* (gummy stem blight), *Entomospodium*, *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 4-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



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	\$160.00
1332757	RootShield Plus WP - 3 lb. Box	\$315.00
1332755	RootShield Plus Granules - 40 lb. Bag	\$485.00

Larger sizes available.

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



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	\$150.00
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MilStop® SP Foliar Fungicide

Excellent For Controlling Powdery Mildew & Other Fungal Diseases!

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

DESCRIPTION: MilStop SP is an OMRI listed 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.	\$315.00



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 **\$165.00**
 Cannot be shipped to the following states: DC, HI, MD, MN, MS, OK, VA, VT

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 **\$17.99**
1458204 Complete Disease Control - 32 oz. Hose-End RTS **\$40.49**
1458200 Complete Disease Control - 8 oz. Concentrate **\$17.49**
1458201 Complete Disease Control - Pint Concentrate **\$23.49**
1458202 Complete Disease Control - Gallon Concentrate **\$128.49**

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



LALSTOP® G46 WG

A New Branding For An Old Favorite – Prestop WG.

TARGET: Use to control seed-borne and soil borne plant diseases such as damping-off, root and stem rot, charcoal rot and wilt. Also, certain storage diseases caused by *Helminthosporium* and *Rhizoctonia*; and foliar diseases like grapevine trunk diseases (several pathogens).

DESCRIPTION: This organic granular fungicide contains the naturally occurring fungus *Gliocladium catenulatum* Strain J1446. The mycelia and spores from this strain move into and take over the rhizosphere and aerial parts of the plant. Once there, they fight disease-causing fungal pathogens with hyperparasitism, by competing for resources, and by inhibiting pathogen growth. 4-hr REI & 0-day PHI. 1 yr shelf life.

SUGGESTED USE: For use on plants grown in soil or soil-less media indoors, outdoors, in greenhouses & in hydroponics. General use rate: 0.05% (10 grams/5 gals of water). Apply every 3-6 weeks depending on disease pressure.

1332987 LALSTOP G46 WG - 100 g packet **\$145.00**
 Cannot be shipped to the following states: HI, DC



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. 0-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 **\$205.00**
1332976 Stargus - 2.5 Gallons - Case of 2 **\$369.00**



WEED CONTROL

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' **\$39.79**

1453852 Heavy Weight - Smooth Finish - 48" x 100' **\$60.49**



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**



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.

\$44.95



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.

1453752 Captain Jack's Lawnweed Brew - 32 oz. Conc.

\$21.99



BROAD SPECTRUM

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. 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

See website for current state registrations and restrictions.



Fireworxx

Professional Grade Burndown Herbicide with 80% Active Ingredients

TARGET: Controls common broadleaf weeds, grasses, algae, and mosses.

DESCRIPTION: This OMRI listed herbicide is fast-acting, post-emergent, and non-selective. It uses a fatty acid blend of caprylic and capric fatty acids to provide a quick burndown of unwanted foliage. Fireworxx is non-selective and is not translocated, it will only burn those parts of the plant that come in contact with the spray solution. Use carefully around desired plants. Labeled for use in and around all food and non-food crops, as well as around structures and buildings. 24 hr. REI.

SUGGESTED USE: Can be applied as vegetation burndown, directed and shielded sprays, pre-plant applications, post-harvest sprays, sucker control, pruning and trimming, harvest aid and desiccations, and in and around buildings and structures. Use a 3% solution for small, easy-to-kill weeds, less than 5" tall, and for moss and algae. Use a 3-6% solution for larger perennial weeds and grasses. Use a 5-9% solution for tough-to-kill weeds, vines, brush, and sucker control. Apply the mixed solution at 0.69-9.2 gals/1,000 sq ft (35-400 gals/acre). In situations where weed pressure is high and/or weeds are larger than 5", use higher volumes.

1453898	Fireworxx – Gallon	\$146.99
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Cannot be shipped to the following states: PR



BioSafe Weed & Grass Killer

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

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

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

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

1453822	Biosafe Weed & Grass Killer - Gallon Concentrate	\$49.99
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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, Corrmint 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



TOOLS & SUPPLIES

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	\$390.00
1402406	ThermX-70 Natural Wetting Agent - 55 Gallon Drum*	CALL

*Call for freight quote. Call for larger sizes.

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



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. Basic removes up to 99% of the chlorine and Plus removes up to 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



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)	\$10.99
1257201	Wire Basket - 1 Gallon (Pack of 2)	\$9.99
1257202	Wire Basket - 3 Gallon	\$7.49
1257203	Wire Basket - 5 Gallon	\$10.49



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 **\$34.99**

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



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



Deer Guard Ribbon, Cards and Strips

Odorless, Season Long Protection From Deer For Your Plants.

DEER GUARD™



TARGET: Rabbits, squirrels, groundhogs, voles, deer, chipmunks, elk, moose

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 it's durability and weather resistance. Powered by hydrolyzed feather meal and capsicum 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

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



CRAWLING INSECT CONTROL



Orange Guard® Home Pest Control

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

- 1460001 Orange Guard Pest Control - 32 oz. RTU Spray Bottle **\$12.49**
- 1460002 Orange Guard Pest Control - Gallon with Sprayer **\$36.49**

EcoPCO® AR-X Multi-Purpose Insecticide

Quick Pest Knockdown In A Gentle Botanical-Based Formula!

- 1457403 EcoPCOAR-X Multi-Purpose Insecticide - 15 oz. **\$19.49**

Avenger® Roach Tablets

Clean & Easy-to-Use Roach Control.

- 1219566 6 oz. **\$5.29**

Avenger® Insect Killer Aerosol Spray

Quick Pest Knockdown In A Gentle Botanical-Based Formula!

- 1219560 Avenger® Insect Killer Aerosol Spray - 12 oz. **\$11.99**
- Ships via Ground ONLY.

Perma-Guard™ Crawling Insect Control

Quick Pest Knockdown In A Gentle Botanical-Based Formula!

- 1218250 Perma-Guard Crawling Insect Control- 2lb. **\$12.99**

See online for shipping restrictions and additional sizes.

Essentria™ G Granular Insecticide

A Granular That Handles A Handful Of Outdoor Pests!

- 1273050 Essentria G Granular Insecticide - 22 lbs. **\$73.00**

Trifecta Outdoor Pest Control Spray

Powerful Pest Control from A Potion of Potent Oils.

- 1273041 16 oz. Concentrate **\$29.99**
- 1273042 32 oz. Concentrate **\$49.99**
- 1273043 32 oz. Ready to Use Hose-End **\$25.99**

Avenger® Boric Acid Roach Killer II

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

- 1219564 Avenger Boric Acid Roach Killer II – 16 oz. **\$5.29**

Essentria® IC Pro

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

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

See online for shipping restrictions and additional sizes.

INDOOR PEST TRAPS



FLEAS + LICE + BED BUGS



Enoz® BioCare® Clothes Moth Traps

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

1260702	2 Traps	\$7.99
1260706	2 Traps per Pack - Bundle of 4	\$27.16

Enoz® BioCare® Flour & Pantry Moth Traps

Stop Sharing Your Food With Pesky Moths.

1280318	2 Pack	\$7.99
1280319	2 Pack - Bundle of 2	\$15.18
1280320	2 Pack - Bundle of 4	\$28.76

Enoz® Trap-N-Kill™ Spider & Insect Trap

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

1280222	2 Pack	\$2.99
1280224	2 Pack - Bundle of 5	\$12.71

Harris® Roach Traps

This Pesticide-Free Trap Will Be Their Last Step!

1219552	2 Pack	\$5.99
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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

Hygea Extra Strength Bed Bug Treatment Spray

6% Stronger Than Original Hygea.

1219620	24 oz. Ready to Use Spray Bottle	\$27.75
1219621	Gallon Ready to Use	\$69.99

Hygea Extra Strength Bed Bug Laundry Additive

Use on Any Washable Item Throughout the Home.

1219625	32 oz. Conc.	\$32.50
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Harris® Bed Bug Detection Traps

Cost Effective & Easy-to-Use Monitoring

1240315	4 Pack	\$5.99
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ARBICO Organics Root Build 240 Mycorrhizal Fungi	33	Mite Predator - <i>Neoseiulus californicus</i>	10
ARBICO Organics Solar Fly Trap	26	Mite Predator - <i>Neoseiulus fallacis</i>	11
ARBICO Organics Yellow Insect Traps	18	Mite Predator - <i>Phytoseiulus persimilis</i>	11
Armory SP	33	Molt-X	21
Avenger Boric Acid Roach Killer II	44	Monterey B.t.	22
Avenger Roach Tablets	44	Monterey Complete Disease Control	39
Avenger Insect Killer Aerosol Spray	44	Monterey Garden Insect Spray	30
AzaGuard	21,31	Monterey Neem Oil	30
AzaSol	31	Monterey Take Down Garden Spray	21
BioCeres WP	21	Mosquito Bits	23
BioSafe Weed & Grass Killer	41	Moth Egg Parasites - <i>Trichogramma spp.</i>	13
BONIDE Captain Jack's Lawnweed Brew	40	M-Pede	29
BONIDE Captain Jack's Neem Max	21,30	Neptune's Harvest Fish & Seaweed Fertilizer, 2-3-1	44
BONIDE Thuricide	22	NoFly WP	29
Boogie Blue Water Filters	42	NutriRoot, 2-2-3	35
BotaniGard ES & 22WP <i>Beauveria bassiana</i> GHA	21,29	Orange Guard Fire Ant Control	43
BotaniGard MAXX	31	Orange Guard Home Pest Control	44
BSFL Nutrient +	35	Organic JMS Stylet-Oil	28
Bug Blaster	42	Organocide Bee Safe 3-in-1 Garden Spray	28
Cease Biological Fungicide	38	Organocide Weed Talliator Weed & Grass Killer	41
Chase Granular Mole & Gopher Repellent	43	Perma-Guard Crawling Insect Control	44
Deer Guard Ribbon, Cards and Strips	43	Plant Success Organics Granular, 3-1-2	33
DiPel Pro DF & DiPel DF	22	Plant Thrive	35
DTE Acid Mix, 4-3-6	36	PRINCIPE WP	27
DTE All Purpose Mix, 4-6-2	36	PyGanic Gardening	21,31
DTE Azomite Granulated, 0-0-0.2	37	PyGanic Specialty	26
DTE Azomite Powder, 0-0-0.2	37	Red Scale Parasite - <i>Aphytis melinus</i>	42
DTE Bat Guano, 7-3-1	36	Root Guard Gopher Wire Baskets	42
DTE Bio-Fish, 7-7-2	36	RootShield Plus Granules & RootShield Plus WP	38
DTE Bio-Live, 5-4-2	36	Rove Beetle - <i>Dalotia coriaria</i>	8
DTE Blood Meal, 12-0-0	36	Serenade ASO	38
DTE Bone Meal, 3-15-0	36	Spider Mite Destroyer - <i>Feltiella acarisuga</i>	10
DTE Citrus Mix, 6-3-3	36	Spider Mite Destroyer - <i>Stethorus punctillum</i>	11
DTE Crab Meal, 4-3-0	36	Stargus	39
DTE Fish Bone Meal, 4-12-0	36	Sticky Traps	18
DTE Flower Garden, 2-6-5	37	Stiky Strips Yellow Insect Traps	18
DTE Fruit Tree, 6-2-4	37	SuffOil-X	28
DTE Granular Humic Acids	37	Surround WP	21
DTE Langbeinite, 0-0-22	37	Tanglefoot Tangle-Trap Sticky Coating	19
DTE Rock Phosphate, 0-3-0	37	The Amazing Doctor Zymes Eliminator	28
DTE Rose & Flower Mix, 4-8-4	37	The Amazing Doctor Zymes Poultry Guard	26
DTE Vegetable Garden, 4-4-4	37	ThermX-70 Natural Wetting Agent	42
Earth Harvest Gluten-8 Liquid Corn Gluten	40	Torched Weed Killer	41
EcoPCO AR-X Multi-Purpose Insecticide	44	Thrips & Whitefly Predator - <i>Amblyseius swirskii</i>	9
Enoz BioCare Clothes Moth Traps	45	Thrips Predator - <i>Amblyseius cucumeris</i>	9
Enoz BioCare Flour & Pantry Moth Traps	45	Trifecta Outdoor Pest Control Spray	44
Enoz BioCare Gnat Stix	18	WeedGuardPlus Organic - Heavy Weight Rolls	40
Enoz Trap-N-Kill Spider & Insect Traps	45	Whitefly Parasite - <i>Encarsia formosa</i>	7
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Essentria IC Pro	44	Yellow Sticky Tape	19
E-Z Root	33		
Fertilome Come And Get It II Fire Ant Killer	43		
Fireworxx	41		
Flea'n Tick B Gone	45		
Fungus Gnat Predator - <i>Stratiolaelaps scimitus</i>	8		
Garlic Barrier	30		
Gluten-8 Pre-Emergent Herbicide	40		



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