

ARBICO *organics*[®]

NATURAL & ORGANIC IPM SOLUTIONS

FALL/WINTER CATALOG 2021



Year-Round Growing Solutions



Predatory Insects



Biorational Insecticides



Amendments & Fertilizers



Weed & Disease Control



Serving Growers Since 1979.

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BEAUVERIA BASSIANA



NEEM OIL & AZADIRACTIN



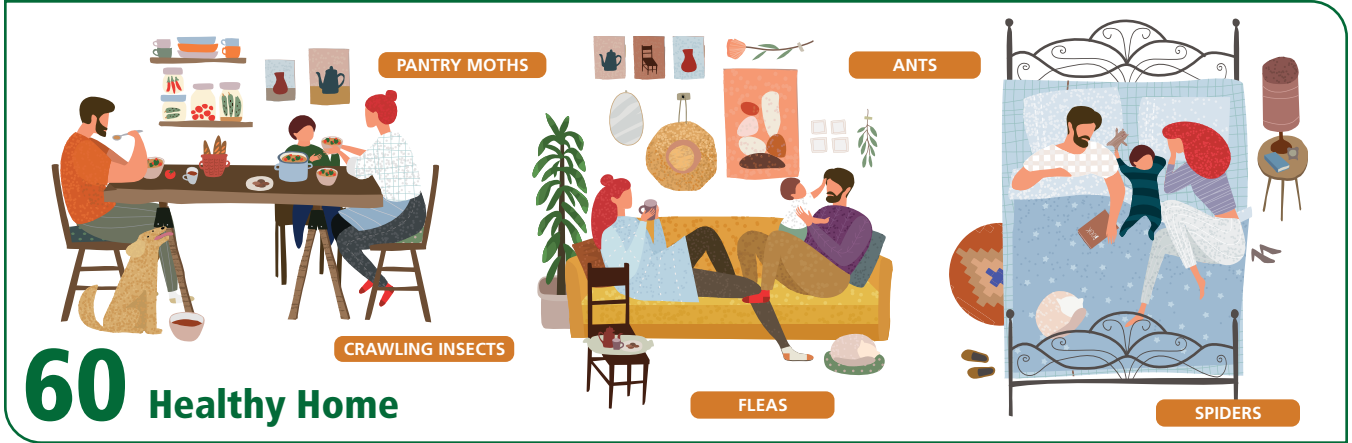
PYRETHRINS



BIORATIONAL

BRANDS YOU CAN TRUST





**2022
VIP SPECIAL PRICING**
Through 12/31/2021

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How To Contact Us:
800-827-2847
www.arbico-organics.com
customercare@arbico.com

POWERFUL PEST CONTROL



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

ADVANTAGES

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



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.

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 Lacewings - *Chrysoperla rufilabris*, *Chrysoperla sp.*



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

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

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



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

1110011	≈5,000 Eggs	\$27.00
1110016	≈10,000 Eggs	\$37.80
1110012	≈25,000 Eggs	\$63.00
1110013	≈50,000 Eggs	\$123.75
1110100	≈5,000 Eggs on Cards	\$30.00
1110102	≈10,000 Eggs on Cards	\$50.00
1110105	≈25,000 Eggs on Cards	\$100.00
1110005	≈400 Larvae in Hex Frame	\$25.00**
1110010	≈1,000 Larvae in Bottle	\$24.00**
1110030	≈5,000 Larvae in 5 Liter Bag	\$98.00**
1110006	≈100 Adults	\$45.00**
1110004	≈250 Adults	\$90.00**
1110007	≈500 Adults	\$170.00**

Green Lacewing Eggs Programs:

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

SUGGESTED USE (Depending upon level of infestation):

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

Larvae & Adults Require OVERNIGHT Shipping

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

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



How to Select the Stage of Green Lacewing for Your Area:

- **Eggs:** Low cost for preventative or low infestation management. Allow 3-10 days for hatching before larvae begin feeding on pests.
- **Larvae:** This predacious stage is best for immediate treatment of infestation! Available in bottle and hex frame for dispersal in hot spots.
- **Adults:** To form a colony in a larger area and host the green lacewing lifecycle. Food needs to be provided for adults to reproduce (pollen/nectar/Good Bug Blend).



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 is Right For Your Conditions, Call One of Our Specialists at 1-800-827-2847.

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	\$80.00
1101003	≈3,000 Pupae	\$207.00
1101002	4 x 250 Pupae in Blister Packs	\$60.00

Overnight Shipping Required



Aphidoletes aphidimyza

Aphid Parasite - *Aphidius colemani*

Exceptional In Greenhouses Producing Vegetables & Ornamentals.

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

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

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

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

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

Overnight Shipping Required



Aphidius colemani

Aphid Parasite - *Aphelinus abdominalis*

These Ravenous Predators Will Eat & Parasitize Aphid Nymphs!

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

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

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

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

1101101	≈250 Mummies	\$83.00
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Overnight Shipping Required



Aphelinus abdominalis

Aphid Parasite - *Aphidius ervi*

This Non-Stinging Parasitic Wasp Attacks Larger Aphid Species.

Image Citation: Alex Wild

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

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

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

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

1001001	≈250 Mummies	\$65.00
1001002	≈500 Mummies	\$100.00
1001003	≈1,000 Mummies	\$150.00

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 Lacewings preventatively before infestation becomes severe.
5. Consider specialist parasites and predators for targeted whitefly infestations.
6. For quick knockdown control, consider sprays with a low environmental impact such as *Beauveria bassiana* products (see page 26) or Neem based sprays.
7. Clean tools and equipment as well as greenhouse structures between growing seasons. See Cleaning & Sanitizing on page 50.

Whitefly Parasite - *Encarsia formosa*



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

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



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

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

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

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 Parasite - *Eretmocerus eremicus*

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



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

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

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

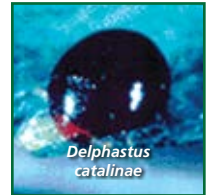
Temperature: Moderate 62-82°F **Relative Humidity:** Minimum 40%

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

Overnight Shipping Required

Whitefly Predator - *Delphastus catalinae*

These Tiny Brown Beetles Consume Several Hundred Pests Daily!



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

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

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

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

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

Overnight Shipping Required

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



Integrated Pest Management of Fungus Gnats

1. Monitor and trap with yellow sticky traps to assess the severity of infestation.
2. Control soil moisture by providing proper drainage, avoiding standing water and allowing media to dry between waterings.
3. Circulate air and prune plants to ensure adequate air flow.
4. Prevent and treat infestations with *Bacillus thuringiensis israelensis* (see page 30).
5. Apply NemAttack *Steinernema feltiae* Beneficial Nematodes to parasitize fungus gnat larvae as well as thrips.
6. Rove beetles (*Dalotia coriaria*) are excellent predators that can establish in growing environments and control multiple soil dwelling pests.
7. Spray *Beauveria bassiana* to the foliage or drench growing media, where permitted.

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

For Indoor Control Of Soil Dwelling Pests!

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

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



Dalotia coriaria
(= *Atheta coriaria*)

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

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

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.



Stratiolaelaps scimitus
(= *Hypoaspis miles*)

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

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

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

1154000	≈12,500 Count	\$19.00
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 pages 30-31.**



NemaSeek™ Sf Beneficial Nematodes

Sf Beneficial Nematodes interrupt thrips reproduction and reduce local populations leading to fewer adults and less resulting damage. Use in conjunction with predatory insects as part of an integrated pest management program. Apply with a watering can, hose end sprayer (See page 55) or backpack sprayer. [See pages 17-19 for more information.](#)



Thrips Predator - *Amblyseius cucumeris*

These Beneficial Mites Consume Vast Quantities Of Thrips.

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

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

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

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

BULK SIZES:

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

CONTROLLED RELEASE:

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

Overnight Shipping Required



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

Overnight Shipping Required



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

The 1st and 2nd instar of the thrips lifecycle live above ground before moving to root as larvae to pupate. When using Beneficial Nematodes to kill thrips larvae, consider spraying them onto the foliage for additional control. Be sure to cover the underside of leaves. [See pages 17-19 for more information on Beneficial Nematodes.](#)

MITE CONTROL

Spider Mite Destroyer - *Feltiella acarisuga*

We Recommend This Predator When Spider Mite Infestations Are Widespread.

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

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



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

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

1155701 ~250 Count **\$144.00**
Overnight Shipping Required

Mite Predator - *Amblyseius andersoni*

Great For Pre-Emergent Control Of Pest Mite Infestations!

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

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



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

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

BULK SIZES:

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

CONTROLLED RELEASE:

1101323 ~25,000 in 200 Mini Sachets w/Hooks **\$155.00**
1101350 ~25,000 in 200 Mini Sachets on Sticks **\$167.00**
1101325 ~62,500 in 250 Sachets w/Hooks **\$225.00**
1101355 ~125,000 in 1,000 Mini Sachets on Sticks **\$695.00**
1101322 ~125,250 in 6 x 328 ft. Strips of Sachets **\$670.00**

Overnight Shipping Required

Mite Predator - *Neoseiulus (=Amblyseius) californicus*

Good For Areas Where Temperatures Fluctuate Greatly Such As Deserts.

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

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



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

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

1151213 ~2,000 Count **\$43.00**
1151209 ~5,000 Count **\$65.50**
1151210 ~10,000 Count **\$106.00**
1151212 ~25,000 Count **\$128.00**
1151215 ~25,000 in 200 Mini Sachets **\$162.00**

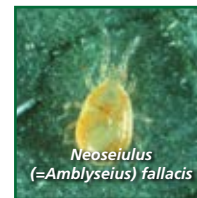
Overnight Shipping Required

Mite Predator - *Neoseiulus (=Amblyseius) fallacis*

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

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

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



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

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%

1151401 ~1,000 Count **\$39.95**
1151402 ~2,000 Count **\$52.00**
1151403 ~5,000 Count **\$86.75**
1151404 ~10,000 Count **\$152.00**

Overnight Shipping Required

Mite Predator - *Mesoseiulus longipes*

Originating In South Africa, This Predatory Mite Is Known For Its Quick Hunting Skills In Warmer & Very Dry Conditions.

Image Citation: Photo by Merritt Singleton, University of Wisconsin - Madison, Dept. of Entomology

TARGET: Spider mites, two spotted spider mites; various mites.



DESCRIPTION: An excellent choice for dry, western states. The female mite predator will lay approx. 50 eggs during a lifespan of approx. 13-40 days. Consumption of pests is dependent upon temperatures and infestation conditions. Use in greenhouses and with taller plants growing under warm lights.

SUGGESTED USE (Depending upon level of infestation): Use in warm/dry greenhouses and in low pest population; lasts longer than most mite predators. Use weekly and apply 3-5 times. For indoor use: ≈1,000 per 300 sq. ft. For outdoor use: ≈5,000 per acre.

Temperature: 65-90°F	Relative Humidity: 40-60%	
1151203	≈1,000 Count	\$38.50
1156301	≈5,000 Count	\$80.00
1156401	≈10,000 Count	\$142.00

Overnight Shipping Required

Mite Predator - *Galendromus occidentalis*

Excellent For Hot & Dry Inland Areas!

Image Citation: Photo by E. Beers, WSU- TFREC

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



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

SUGGESTED USE (Depending upon level of infestation): Used indoors and outdoors. For indoor, use ≈1,000 per 500 sq. ft. For outdoor, use ≈2,000-5,000 per acre. Use weekly until infestations subside.

Temperature: Hot 80-110°F	Relative Humidity: Low 40%	
1151202	≈1,000 Count	\$43.00
1151218	≈5,000 Count	\$90.00
1151220	≈10,000 Count	\$160.00
1151221	≈50,000 Count	\$450.00

Overnight Shipping Required

Mite Predator - *Phytoseiulus persimilis*

The Mite Predator With The Highest Consumption & Dispersal Rate.

Image Citation: Photo by David Janzen. All rights reserved to BioBee Sde Elyahu Ltd.



TARGET: Two spotted spider mites and various other mites.

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

SUGGESTED USE (Depending upon level of infestation): For prevention on tomatoes and indoor crops, apply 1-3 mites per sq. ft. Increase to 5 or more mites per sq. ft. for moderate infestations. For severe infestations consider using a knockdown prior to release of predatory mites. See online or call for severe infestations or outdoor control.

Temperature: Moderate: 68-90°F	Relative Humidity: High: 60-90%	
1151204	≈2,000 Count	\$23.00
1151205	≈4,000 Count	\$40.00
1151206	≈6,000 Count	\$54.00
1151207	≈10,000 Count	\$85.00

Overnight Shipping Required

Spider Mite Destroyer - *Stethorus punctillum*

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



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

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

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

Temperature: Moderate 73-77°F	Relative Humidity: High 60%	
1113301	≈100 Count	\$98.00

Subject to seasonal availability.

Overnight Shipping Required

MEALYBUG/SCALE CONTROL

Mealybug Parasitoid - *Anagyrus spp.*

Stop Destructive Mealybugs With This Beneficial Parasitoid.

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

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

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

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

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

1132060	≈100 Mummies	\$75.00
1132061	≈200 Mummies	\$80.00
1132072	≈500 Mummies	\$120.00

Currently only available for sale within the state of CA.

Overnight Shipping Required



Red Scale Parasite - *Aphytis melinus*

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

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

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

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

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

1122001	≈10,000 Adults	\$75.00
1122002	≈25,000 Adults	\$80.00
1122003	≈50,000 Adults	\$150.00

Overnight Shipping Required



Mealybug Destroyer - *Cryptolaemus montrouzieri*

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

Image Citation: Nijel Cruz

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

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

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

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

1114702	≈100 Adults	\$75.00
1114703	≈250 Adults	\$95.00
1114704	≈500 Adults	\$180.00
1114705	≈1,000 Adults	\$350.00
1114710	≈5,000 Adults	\$1,000.00

Overnight Shipping Required



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

Voracious Adults & Larvae Feed On Scale & Other Pests!

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

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

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

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

1121501	≈100 Count	\$85.50
1121502	≈250 Count	\$160.00

Overnight Shipping Required



EGG CONTROL

Moth Egg Parasites - *Trichogramma spp.*



Prevent Worm Pest Damage On Crops!

TARGET: Egg stages of more than 200 pests, including: borers, webworms, loopers, leafminers, fruitworms, cutworms, bollworms and armyworms (excluding beet armyworm).



DESCRIPTION: *Trichogramma spp.* lay their eggs in the pest eggs, killing them. Adults emerge 2-3 days after release. They live 7-75 days depending on temperature and moisture. *Trichogramma* are shipped in the parasitized host egg. Each tab contains ≈3,300 eggs per tab.

SUGGESTED USE (Depending upon level of infestation): Use ≈1 tab/3,000 sq. ft.; 1/2-2 cards/acre weekly for 2-6 weeks. Release at first flight of moths and every 7-10 days thereafter until infestation subsides. Place tabs where moths are seen. Use traps for monitoring and trapping adult moths.

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

SKU #	Amount & Weight	Price
<i>Trichogramma brassicae</i> - European cabbage butterfly, cutworm, corn earworm, European corn borer, cabbage looper, armyworm		
1131910	3 Tabs	\$15.00
1131903	6 Tabs	\$20.00
1131911	1 Card (30 Tabs)	\$34.00
<i>Trichogramma minutum</i> - trees, bogs, more common on the East Coast		
1129001	3 Tabs	\$15.00
1129003	6 Tabs	\$20.00
1129010	1 Card (30 Tabs)	\$34.00
<i>Trichogramma platneri</i> - orchards, more common West of the Rockies		
1130001	3 Tabs	\$15.00
1130003	6 Tabs	\$20.00
1130030	1 Card (30 Tabs)	\$34.00
<i>Trichogramma pretiosum</i> - row crops, vineyards		
1131021	3 Tabs	\$15.00
1131003	6 Tabs	\$20.00
1131022	1 Card (30 Tabs)	\$34.00

See online for volume & program prices.

Free 2nd Day Shipping

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

BONIDE® All Seasons Horticultural & Dormant Spray Oil

Control Overwintering Eggs Of Insect Pests With This Light-Weight Concentrated Oil.

TARGET: Aphids, bean thrips, leafhoppers, scale, codling moths, fungus gnats, whiteflies, mealybugs, mites, psyllids and spider mites.

DESCRIPTION: This oil-based concentrate can be used as a growing season spray, dormant spray (no leaves) or delayed dormant (green tip) spray to control overwintering eggs and other insects. Highly recommended for use on fruit trees, shade trees, shrubs, ornamentals, roses and vegetables. Light enough to use anytime of the year.

SUGGESTED USE: Dilute 2-8 oz per gal. of water depending upon infestation. Apply every 7-14 days as needed. Apply enough liquid per plant to wet entire surface. Give special attention to underside of the leaves and nooks and crannies on the trunk and stems. Will not stain. Plant and crop-specific instructions are included.



1274106	BONIDE Horticultural Spray Oil - 32 oz. RTU	\$8.49
1274103	BONIDE Horticultural Spray Oil - 32 oz. RTS	\$15.99
1274101	BONIDE Horticultural Spray Oil - 16 oz. Conc.	\$8.99
1274102	BONIDE Horticultural Spray Oil - 32 oz. Conc.	\$12.99
1274104	BONIDE Horticultural Spray Oil - 1 Gal. Conc.	\$31.99

Ships via Ground ONLY.

Monterey Horticultural Oil



Functions As A Fungicide, Insecticide & Miticide!

TARGET: Spider mites, eriophyid mites, armored scale, soft scale, mealybugs, psyllids, whiteflies, aphids, leafrollers, leaf tiers, webworms, cankerworms, plant bugs, leafhoppers and adelgids.

DESCRIPTION: Composed of mineral oil, this product covers egg, larval and nymph stages causing suffocation. In addition, it functions as a fungicide as it will interfere with a fungal pathogen's ability to attach to a host plant.

SUGGESTED USE: Can be used year-round on ornamentals, roses, vegetables, citrus, small fruits, tree fruits, and nuts. Best when applied during dormancy. During growing seasons, apply until day of harvest. Use about 2.5-5 Tbsp. oil/1 gal. water. For trees, use approximately 3-4 gal. solution/tree. For citrus, apply about 8-15 gal. solution /tree. For various fruits, vegetables, and ornamentals use about 1-2 gal. solution/1,000 sq. ft. See label for crop specific rates and instructions.



1257919	Monterey Horticultural Oil - 32 oz. RTU	\$14.49
1257923	Monterey Horticultural Oil - 32 oz. RTS	\$15.49
1257920	Monterey Horticultural Oil - 1 Pint Conc.	\$10.49
1257921	Monterey Horticultural Oil - 1 Quart Conc.	\$12.49
1257922	Monterey Horticultural Oil - 1 Gallon Conc.	\$29.99

Cannot be shipped to the following states: ND, WY

32 oz. RTU cannot be shipped to: AR, AZ, DC, DE, IN, KY, LA, MD, ND, NE, NH, OK, RI, SD, VA, WV, WY

CATERPILLAR CONTROL

Agree® WG

OMRI Listed. A Biopesticide That's Effective Against Some of The Hardest to Kill Larvae.

TARGET: Armyworms, bollworms, borers, caterpillars, codling moth, cutworms, diamondback moth, grapeleaf skeletonizer, green cloverworm, light brown apple moth, leafrollers, loopers, and many more.

DESCRIPTION: Agree WG uses the bacterium *Bacillus thuringiensis* subspecies aizawai strain GC-91 to control the larvae of many lepidopterous species. These pests can be notoriously hard to control, but once they ingest this product they stop eating within an hour and die with a few short days. Agree WG works best when used on small, newly hatched larvae, so it's advisable to be pro-active by keeping a close eye out for any early infestations. Won't harm beneficials. 4-hr REI & 0-day PHI. Residue Exempt. Excellent for use on Hemp.

SUGGESTED USE: These wettable granules are easy to mix and can be applied through most conventional application methods, including aerial, ground and chemigation. Application Rate: 0.25-2.0 lb/acre (depending on crop and pest targeted). Spray Interval: 3-7 days. The use of this product should conform to resistance management strategies established for the crop and use area. Such strategies may include rotating products with different modes of action.

1201225 Agree WG - 5 lbs. \$107.16



Entrust™ SC Naturalyte® Insect Control

Because The Cost Of Saving Your Crops Is Never Too High.

TARGET: Apple maggots, armyworms, bagworms, beetles, borers, caterpillars, codling moth, fireworms, grasshoppers, leafminers, leafrollers, moths, red imported fire ants, sawflies, spider mite, thrips, webworms, and many more.

DESCRIPTION: This easy-to-use liquid organic product contains the naturally occurring soil bacterium, Spinosad, in a much higher percentage (22.5%) than comparable Spinosad insecticides. It works on contact and by ingestion. Can be applied to row crops, orchards, nurseries and greenhouses. Does not persist in the environment; any overspray or residues on foliage will breakdown within days to weeks. Low toxicity to beneficials and excellent for IPM.

SUGGESTED USE: Mix with water and apply as a foliar spray. Application rates: 1.5-10 fl oz/acre. Active ingredient equivalents: 0.023-0.156 lb ai/acre. Acres per gallon: 13-85. Can be used with adjuvants. Spray tank pH 6.0-9.0 is recommended. Extensive crop and pest specific instructions on label.

1271150 Entrust Sc Naturalyte Insect Control - 1 Quart \$595.00



BT NOW®

An Extremely Effective Biopesticide That Controls Crop-Damaging Caterpillars.

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

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

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

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



DiPel® DF

OMRI Listed & WSDA Approved *Bacillus thuringiensis v kurstaki* (Btk) to Control Most *Lepidoptera* Insects.

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

DESCRIPTION: This dust-free, flowable powder bioinsecticide works quickly; pests will stop feeding within the hour and die in a few hours to 3 days. It is best used when the larvae are actively feeding but before the plants are heavily damaged. People, beneficials, birds, fish and wildlife are not affected by DiPel.

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

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



Monterey B.t.



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

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

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



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

1201213	Monterey B.t. - 32 oz. RTU	\$14.49
1201214	Monterey B.t. - 32 oz. Hose-End RTS	\$24.49
1201210	Monterey B.t. Concentrate - 1 Pint	\$13.99
1201211	Monterey B.t. Concentrate - 1 Quart	\$22.99
1201212	Monterey B.t. Concentrate - 1 Gallon	\$79.99

Cannot be shipped to the following states:

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

BONIDE® Thuricide

Caterpillar Targeting *Bacillus thuringiensis* var. *kurstaki*

TARGET: Control of caterpillars.

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

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



1201205	BONIDE Thuricide RTU - 1 Quart	\$12.49
1201206	BONIDE Thuricide RTU - 1 Gallon	\$38.99
1201201	BONIDE Thuricide Liquid Concentrate - 8 oz.	\$10.97
1201202	BONIDE Thuricide Liquid Concentrate - 16 oz.	\$14.99

ADULT MOTH CONTROL



Large Plastic Delta Trap

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

1230435	Large Plastic Delta Trap - Pack of 5	\$35.00
1230436	Large Plastic Delta Trap - Pack of 10	\$66.50

Scentry Wing Trap

You'll Get Options & Economy With This Trap!

1230440	Scentry Wing Trap - Pack of 5	\$19.00
1230441	Scentry Wing Trap - Pack of 10	\$35.00

Delta Traps

Catch Those Pests With Ease!

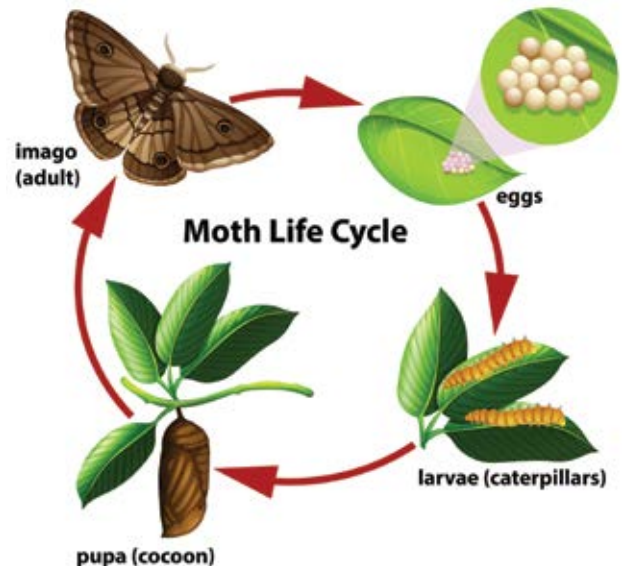
1230426	Delta Trap - Pack of 10	\$21.50
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Gypsy Moth Trap

Moth Pests Disappear With This "Milk Carton" Trap!

1230430	Gypsy Moth Trap - Pack of 5	\$10.45
1230431	Gypsy Moth Trap - Pack of 10	\$18.99

See online for pest specific lures.



Your Multi-Pest Solution For Optimal Growing

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



NemaSeek™ Hb
Beneficial Nematodes

NemAttack™ Sf
Beneficial Nematodes

NemAttack™ Sc
Beneficial Nematodes

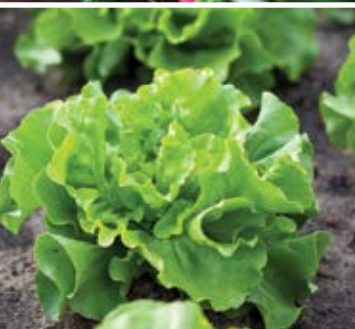
Apply To Soil For Control Of Target Pests:

- Beetle Grubs
- Borers
- Caterpillars
- Fungus Gnats
- Flea Beetles
- Leafminers
- Rootworms
- Thrips
- Weevils & More!

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

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

See pages 17-19 for more information.





What Are Beneficial Nematodes?

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

How Do Beneficial Nematodes Work?

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



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

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

Apply To Soil For Control Of Target Pests:

- Beetle Grubs
- Rootworms
- Leafminers
- Flies
- Thrips
- Worms
- Fungus Gnats
- Weevils
- And more!

How Do I Choose the Right Beneficial Nematodes?

Use the Selection Chart on the next page to choose the proper species by pest(s). If you are unsure which nematode to use or your target pest is not listed, please call and one of our bio-control specialists can assist. Remember Beneficial Nematodes control soil-dwelling life stages.

When & How Often Should Beneficial Nematodes Be Applied?

Use beneficial nematodes whenever larvae or grubs are present. As pest larvae feed on plant roots beneath the soil surface, severe damage can be done before you realize you have a pest dilemma. If adult insects are present, their eggs, nymphs, larvae and pupa will soon be developing.

FOR TREATMENT: Apply nematodes every 7-10 days until pest infestation subsides.

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

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

When Will I See Results?

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

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

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

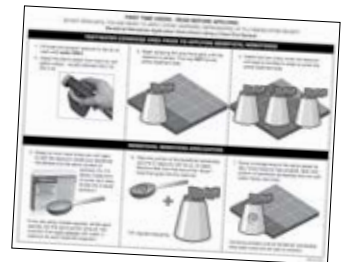
How Do I Apply Beneficial Nematodes?

DO NOT OPEN PACKAGE UNTIL YOU ARE READY TO APPLY

Beneficial Nematodes are applied to the soil mixed with water. Since they are alive and sensitive to light, apply early in the morning or at dusk. It's easy to apply nematodes.

Before applying, make sure the soil is moist. Mix Beneficial Nematodes with enough water for coverage area.

Apply pre-dawn or at dusk with a hose end sprayer (See sprayer options on page 55), backpack sprayer, pump sprayer or watering can. Lightly water again after application.



Keep area moist for at least 2 weeks. Complete nematode application instructions available online and in the package.

Foliar Applications:

Beneficial Nematodes should be applied to the foliage in higher humidity and plants should be kept moist for 3 or more hours. Spray thoroughly to cover all surfaces of the leaves while avoiding runoff. Reapply weekly. Use in conjunction with soil applications.

How Long Can Beneficial Nematodes Be Kept Before Use?

Beneficial Nematodes should be used as soon as possible. If you need to store them, it is best to store them **unopened** in a refrigerator for no longer than 2 weeks. Once opened, use immediately and entirely.

BENEFICIAL NEMATODES

NemaSeek™ *Heterorhabditis bacteriophora* (Hb) Beneficial Nematodes ▲

NemaSeek *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 carpocapse* (Sc) Beneficial Nematodes ●

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



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

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



NEMATODE SELECTION CHART – Choose Variety By Pest

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



Beneficial Nematodes

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

- ★ = NemaAttack™ *Steinernema riobrave* (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
■ NemaAttack <i>Steinernema feltiae</i>		
1220309	≈5 million	\$36.00
1220310	≈10 million	\$42.95
1220311	≈50 million	\$72.00
1221701	≈250 million	\$198.00
1221704	≈500 million	\$270.00
● NemaAttack <i>Steinernema carpocapsae</i>		
1220319	≈5 million	\$36.00
1220320	≈10 million	\$42.95
1220321	≈50 million	\$72.00
1221702	≈250 million	\$198.00
1221705	≈500 million	\$270.00
★ NemaAttack <i>Steinernema riobrave</i>		
1220410	≈5 million	\$36.00
◆ NemaSeek <i>Steinernema kraussei</i>		
1220420	≈5 million	\$36.00
1220421	≈10 million	\$42.95
1220422	≈50 million	\$72.00
1220423	≈250 million	\$198.00
1220424	≈500 million	\$270.00
◐ NemaSeek <i>Heterorhabditis indica</i>		
1220200	≈5 million	\$36.00

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

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

SIZE & COVERAGE CHART

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

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



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

OMRI Listed Beneficial Nematodes



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

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

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

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

PEST INSECT TRAPS



Sticky Traps

Monitor & Trap For Best Pest Identification!

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

Aphid/Whitefly Yellow Sticky Traps:

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

Thrips/Leafminer Blue Sticky Traps:

TARGET: Thrips, leafminers.

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

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



Stiky™ Strips Yellow Insect Traps

These Basic Traps Come With A Handy Wire Hanger.

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

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

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

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



ARBICO Organics® Yellow Insect Traps

Monitoring + Trapping = Effective Pest Control

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

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

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

- For trapping in the greenhouse or garden, use roughly one trap per 25-50 sq. ft.
- For monitoring, use roughly one trap per acre.

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



Pest Wizard Blue-Yellow Card Trap

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

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

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

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

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

1254201	Blue & Yellow Card Trap - 4 Pack	\$8.99
1254202	Blue & Yellow Card Trap - 10 Pack	\$16.00



Yellow Stiky™ Tape

Longer Length Tape To Cover Even More Area.

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

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

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

1259610	Yellow Stiky Tape - 2" wide x 530' long	\$44.00
1259611	Yellow Stiky Tape - 6" wide x 530' long	\$90.00
1259612	Yellow Stiky Tape - 10" wide x 530' long	\$132.00
1259613	Yellow Stiky Tape - 12" wide x 530' long	\$180.00

*Larger quantities available.



FlyWeb® Insect Monitor Cards

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

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

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

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

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



ARBICO Organics® Blue Insect Traps

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

TARGET: Thrips, leafminers.

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

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

- For trapping in the greenhouse or garden, use roughly one trap per 25-50 sq. ft.
- For monitoring in a greenhouse, use roughly one trap per 25-50 sq. ft.
- For field crop monitoring, 1 trap per 10,000 sq. ft. or as needed.

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



Blue Sticky Strips

Use Blue For Monitoring & Trapping A Wide Range Of Thrips Species!

TARGET: Male and female western flower thrips as well as other species of *Frankiniella*.

DESCRIPTION: Thrips find this particular tone of blue extremely attractive. For best results, place just above crop canopy and use early in the season before pest populations grow. Monitor regularly and replace after 6 weeks of use or when surface is mostly covered or dirty. Complete instructions included. Traps feature no mess "dry touch" adhesive. Each pack includes 10 - 4" x 9 1/2" 2 sided traps and 10 twist ties.

SUGGESTED USE: If used for pest suppression in glasshouses: At least 1 trap per 10 sq. meters, adjusting amount as needed for severity of problem. If used just for monitoring pest populations: Use 1 trap per 100-1000 sq. meters depending on the crop and/or the size of the glasshouse.

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



Olson Garden Guard Yellow Sticky™ Ribbon

This Ribbon Is Just Right For Encompassing Small Gardens.

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

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

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



1259605 Garden Guard Yellow Sticky Ribbon - 2" x 100 ft. **\$11.49**

Pest Wizard Western Flower Thrips Trap Kit

Thrips Will Feed On Over 500 Different Plant Species – Which Probably Includes Yours!

TARGET: The lure is specifically designed to attract Western Flower Thrips (*Frankliniella occidentalis*). The blue/yellow sticky card may attract other pest insects as well.

DESCRIPTION: You should be vigilant against the very destructive Western Flower Thrip no matter what you're growing, but especially if you're growing greenhouse floricultural crops. Early monitoring and detection is important to prevent it from establishing. This kit is your first line of defense in monitoring and trapping this pest. The lure is effective for 60 days. If the trap becomes covered with insects or other debris before that time, remove the lure and attach it to a fresh trap.

SUGGESTED USE: For use in outdoor areas and inside greenhouses. Place traps close to individual plants or row crops. Put traps where thrips damage is or has been in the past.



1254270 Western Flower Thrips Trap Kit - 2 Traps/2 Lures **\$9.99**
1254271 Western Flower Thrips Replacement Lures - 3 Pack **\$8.99**

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	\$6.65
1280502	Gnat Stix - 12 Per Pack - Bundle of 2	\$11.50
1280503	Gnat Stix - 12 Per Pack - Bundle of 4	\$20.50

Enoz® BioCare® Aphid & Whitefly Traps



Controls Many Common Flying Pests Without Pesticides.

TARGET: Aphids, whiteflies, thrips, spider mites, fungus gnats, scale insects and other small flying insects.

DESCRIPTION: Aphids, whiteflies and other similar pests will seek out healthy plants to feed on and, when they find them, they pierce leaves and stems and suck out the sap. This feeding behavior can cause serious damage to crops. The best line of defense is to control them as soon as they land, and these traps will do just that. The color of these traps mimics healthy leaf growth and lures the insects in. When they touch the surface of the trap, the adhesive will capture the insects and they'll perish. Has adhesive on both sides, to catch insects coming from any direction. Can be composted after use or placed in a worm bin. Safe for use in food-handling and food storage areas. Pesticide/Poison Free.

SUGGESTED USE: Use in gardens and greenhouses. For best results, use before infestations have occurred. Hang trap using a twist tie or string (not included) or attach to plastic or wooden stake (also not included). Place trap where insects have been seen. Use one trap/4 infested plants. For heavy infestations, use one trap at the base and one trap at the crown of the plant. Replace traps when full or after 3 months.



1254010 Aphid & Whitefly Traps - 4 Pack **\$4.99**

BIOLOGICAL GRUB CONTROL

NemaSeek™ Hb Beneficial Nematodes

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



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 18-19), which will aid in spreading the bacterium to grubs. Store in a cool dry place to maintain shelf life.

SUGGESTED USE: Use All-Purpose Dispenser Tube for easy application (see 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.

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| 1216001 | Milky Spore Powder - 10 oz. - Covers ≈2,500 sq. ft. | \$28.60 |
| 1216040 | Milky Spore Powder - 40 oz. - Covers ≈1/4 acre | \$83.50 |
| 1216045 | Milky Spore Powder - 25 lb. Drum - Covers ≈2.25 acres | \$800.00 |
| 1216052 | All-Purpose Dispenser Tube | \$14.50 |

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



Where Are Japanese Beetles Found?

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

Milky Spore Granular

A New Formulation For Use In A Drop Spreader

TARGET: Japanese beetle grubs.

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

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

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

*Call for freight quote.

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



MULTI-PURPOSE

Organic JMS Stylet-Oil®



Smother Overwintering Insect Pests & Mites With This Food Grade Dormant Oil!

TARGET: Powdery mildew, mites, whiteflies, leafminers and insect transmitted diseases.

DESCRIPTION: Use this multi-purpose, year-round fungicide, insecticide and antiviral spray oil in greenhouses, on field crops and on fruit trees. Kills powdery mildew on contact and prevents occurrence for up to 14 days and controls mites, whiteflies and leafminers. Made from paraffinic oil and is colorless, tasteless and odorless. 4-hour re-entry interval; no pre-harvest interval.

SUGGESTED USE: For gardens, apply approx. 3 Tbsp./gal. water with a sprayer. For larger areas, apply about 1-2 gal./100 gal. water and use 25-150 gal. of dilute/acre depending on crop, timing and desired treatment. Apply weekly or bi-weekly depending on severity of condition. Begin at the onset of plant growth, fungus emergence, disease and insect infestation. See label online for detailed rates and instructions.

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| 1274107 | Organic JMS Stylet-Oil - 1 Gallon | \$38.50 |
| 1274108 | Organic JMS Stylet-Oil - 2.5 Gallons | \$58.00 |

*Call for freight quote. Larger sizes available.

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



M-Pede®



A Highly Effective, Organic Version Of Insecticidal Soap.

TARGET: Adelgids, aphids, caterpillars, earwigs, lace bugs, leafhoppers, leafminers, mealybugs, mole crickets, plant bugs, psyllids, sawfly larvae, scales, spider mites, tent caterpillars, thrips, whiteflies, gypsy moth & 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 – with 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. The 2% v/v rate is the most frequently used stand-alone rate. **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

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| 1247650 | M-Pede - 2.5 Gallons | \$130.00 |
| 1247652 | M-Pede - 2.5 Gallons - Case of 2 | \$250.00 |



PureCrop1

Plant-Based Biostimulant, Insecticide & Fungicide.

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

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

SUGGESTED USE: As a preventative foliar spray, 1 oz. per gal. every 7-10 days. For knock down foliar spray, 2 oz. per gal. every 2-3 days until desired results. To maintain long term biostimulant benefits spray, 2 oz. per gal. once a week. As a root drench or general surfactant spray, 1.24 oz. per gallon of water.

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| 1274200 | PureCrop1 - 16 oz. | \$38.00 |
| 1274201 | PureCrop1 - 1/2 Gallon | \$100.00 |
| 1274202 | PureCrop1 - 1 Gallon | \$190.00 |
| 1274203 | PureCrop1 - 2.5 Gallons | \$475.00 |

Larger sizes available.



The Amazing Doctor Zymes Eliminator



Use This Year Round For Pest & Mildew Free Plants.

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

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

SUGGESTED USE: Dilute with warm water. Larger volume applications: 1/2 cup/gal water. For severe infestations: 1/2 cup/gal water every 3rd day. Powdery Mildew/weak solution: .5 oz/31.5 oz water. Soft bodied insects/medium solution: 1-1.5 oz/31 oz water. Infestations/strong solution: 2-2.5 oz/30 oz water. Preventative: seeds/transplants: .5-1 oz/qt water; soil amendment: 1 cup/5 gallons water; foliar spray: 1/2 cup/1 gal water.

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| 1459200 | The Amazing Dr. Zymes Eliminator - Quart RTU | \$13.95 |
| 1459201 | The Amazing Dr. Zymes Eliminator - Quart Conc. | \$32.95 |
| 1459202 | The Amazing Dr. Zymes Eliminator - Gallon Conc. | \$115.95 |

Larger sizes available.

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



NEEM OIL & BOTANICAL OILS

Earth's Ally® Insect Control



Insect Control That's Safe For People, Pets & The Planet.

TARGET: Mites, aphids, whiteflies, mealybugs, leaf-rollers, scale insects, and other soft-bodied insects.

DESCRIPTION: This is an organic blend of rosemary, clove and peppermint oils that works as an insecticide, miticide and repellent. It will knockdown, kill and repel soft-bodied insects. Can be used on all plants and trees grown indoors and outdoors and leaves no harmful residues. 0-day PHI. FIFRA 25(b) exempt.



SUGGESTED USE: 1 qt concentrate makes up to 5 gals. RTU: Thoroughly spray all plant parts until runoff. Avoid spraying in the heat of the day and do not apply at temps over 90°F. If a second application is needed, wait at least 5 days before reapplication. For use as a repellent, apply every 7-10 days. Avoid use when pollinators are active, otherwise this product is bee safe. Concentrate: Mix 3/4 cup (6 fl. oz.) of concentrate with 1 gallon of water and follow same instructions as RTU.

1459310 Earth's Ally Insect Control - 24 oz. RTU **\$12.99**
1459311 Earth's Ally Insect Control - 1 Quart Conc. **\$39.99**

Organocide® Bee Safe 3-in-1 Garden Spray



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

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

DESCRIPTION: This organic spray uses a specific blend of potassium sorbate, sesame oil, lecithin and edible fish oil to work as an insecticide, miticide and fungicide. It contains no petroleum solvents and is an ideal alternative to many chemical-based pesticides and sprays. Organocide is effective against soft-bodied insects, spider mites and scale insects, but it also controls many common fungal diseases, like powdery mildew, downy mildew and spot diseases. Can be used on most crops grown indoors and outdoors, but do not use the concentrate indoors. 0-hr REI & 0-day.



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

1150050 Organocide 3-in-1 Garden Spray - 24 oz. RTU **\$10.00**
1150056 Organocide 3-in-1 Garden Spray - 32 oz. Conc. **\$15.99**

BONIDE® Neem Oil

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

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

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



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

1246602 BONIDE Neem Oil RTU -1 Quart **\$11.89**
1246605 BONIDE Neem Oil RTU - 1 Gallon **\$31.25**
1246603 BONIDE Neem Oil Concentrate -1 Pint **\$18.49**

Cannot be shipped to the following states: DC

Monterey 70% 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 70% Neem Oil - 32 oz. RTU **\$14.49**
1555616 Monterey 70% Neem Oil - 16 oz. RTS **\$29.49**
1555613 Monterey 70% Neem Oil - 8 oz. Conc. **\$15.99**
1555614 Monterey 70% Neem Oil - 1 Pint Conc. **\$24.99**
1555618 Monterey 70% Neem Oil - 1 Gallon Conc. **\$144.49**

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

BEAUVERIA BASSIANA

BioCeres® WP



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

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

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

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

1332890 BioCeres WP - 1 lb. Bag **\$80.00**
1332895 BioCeres WP - CA Version - 1 lb. Bag **\$80.00**

Case sizes available.



Beauveria bassiana

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

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

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

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

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

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

Application Rates of BotaniGard ES

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

Application Rates of BotaniGard 22WP

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

BotaniGard ES

1332801 BotaniGard ES - 1 Quart **\$85.00**
1332799 BotaniGard ES - 1 Gallon **\$269.00**

BotaniGard 22WP

1332800 BotaniGard 22WP - 1 lb. Powder **\$90.00**

Case sizes available.

Shipping Restrictions: Cannot ship via US Mail.



Mycotrol® WPO



A New Formulation For A Reliable Favorite!

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

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

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

1332785 Mycotrol WPO - 1 lb. **\$108.00**
1332795 Mycotrol WPO - 1 lb. (Case of 12) **\$1,166.40**

Ships via UPS Ground & FedEx Ground ONLY.



OTHER BIORATIONAL

Grandevo® CG & Grandevo® WDG

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

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

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

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

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

Grandevo CG cannot be shipped to the following states: FL

Entrust™ SC Naturalyte® Insect Control

Because The Cost Of Saving Your Crops Is Never Too High.

TARGET: Apple maggots, armyworms, bagworms, beetles, borers, caterpillars, codling moth, fireworms, grasshoppers, leafminers, leafrollers, moths, red imported fire ants, sawflies, spider mite, thrips, webworms, and many more.

DESCRIPTION: This easy-to-use liquid organic product contains the naturally occurring soil bacterium, Spinosad, in a much higher percentage (22.5%) than comparable Spinosad insecticides. It works on contact and by ingestion. Can be applied to row crops, orchards, nurseries and greenhouses. Does not persist in the environment; any overspray or residues on foliage will breakdown within days to weeks. Low toxicity to beneficials and excellent for IPM.

SUGGESTED USE: Mix with water and apply as a foliar spray. Application rates: 1.5-10 fl oz/acre. Active ingredient equivalents: 0.023-0.156 lb ai/acre. Acres per gallon: 13-85. Can be used with adjuvants. Spray tank pH 6.0-9.0 is recommended. Extensive crop and pest specific instructions on label.

1271150	Entrust Sc Naturalyte Insect Control - 1 Quart	\$595.00
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NoFly™ WP

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

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

DESCRIPTION: This organic wettable powder mycoinsecticide contains spores of the entomopathogenic fungus *Isaria fumosoroseus* strain FE 9901. This naturally occurring fungus is a common and aggressive predator of insect pests but is not a plant pathogenic organism and will not adversely affect beneficials (including bees). When the spores come into contact with the insect pest, they will immediately attach themselves to the body. As they grow, they will penetrate the host insect's body and disrupt the normal functions of the insect's internal organs and tissues. It will stop feeding within 24 hours and die in 3-7 days. Effective against all life stages of insect pest.

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

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

Cannot be shipped to the following states: AK, DC



Venerate® CG & Venerate® XC

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

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

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

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

1332957	Venerate CG - 1 Quart	\$58.00
1332956	Venerate CG - 1 Gallon	\$134.00
1332960	Venerate XC - 2.5 Gallons	\$260.00

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



AZADIRACTIN

AzaSol™



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

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

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



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

1457620	AzaSol - .25 oz.	\$19.99
1457621	AzaSol - .75 oz.	\$46.99
1457622	AzaSol - 6 oz. (8 x 0.75 oz.)	\$329.99
1457625	AzaSol - 2 lb. Jug	\$1,297.99

AzaGuard®



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

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

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

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



1222204	AzaGuard - 32 oz.	\$159.00
1222206	AzaGuard - 1 Gallon	\$570.00

Azera® Gardening



This Unique Mix Of Azadirachtin & Pyrethrins Offers Exceptional Insect Control.

TARGET: This product will kill the larval, pupal and adult stages of a broad spectrum of over 200 listed insects.

DESCRIPTION: This organic gardening pesticide couples two plant-based powerhouses (Azadirachtin and Pyrethrins) to fight both hard-bodied and soft-bodied insects. Hard-to-kill insects will not get past Azera; they will succumb to the quick knock-down kill or perish more slowly once they ingest it. One of these two processes will kill all stages of an insect's life (larval, pupal and adult), effectively eliminating all future generations. This OMRI listed product is soft on the environment and can be applied the same day of harvest.

SUGGESTED USE: Apply Azera as soon as insects appear; do not wait until plants are heavily infested. Apply with any powered or manual pesticide application equipment. The most commonly used rate of application is 2 pints per acre (32 fl. oz. = 946 ml.) Higher populations of adults and/or hard to kill insects may require 3 pints per acre (48 fl. oz. = 1.42 L) or 3.5 pints per acre (56 fl. oz. = 1.66 L.).



1288740	Azera Gardening - 8 oz.	\$41.00
1288750	Azera Gardening - 32 oz.	\$108.00
1288760	Azera Gardening - 1 Gallon	\$390.00

Debug® Turbo



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

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

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

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



1450500	Debug Turbo - 1 Quart	\$64.25
1450502	Debug Turbo - 1 Gallon	\$260.00

Case sizes available.

Cannot be shipped to the following states: AL, AK, AR, CT, DE, DC, ID, IN, IA, KS, LA, ME, MS, NE, NH, ND, PR, RI, SD, UT, VT, WV, WY

PYRETHRINS

PyGanic® Gardening

Rapid Knockdown & Kill For Outdoor Pests In Your Garden.

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

DESCRIPTION: This updated version of PyGanic offers the same ingredients and results as the former PyGanic 1.4. Pyrethrins, the active ingredient here, is made from a daisy extract and has been used effectively for a millennia. This formulation can be applied in a variety of ways, making it easy to use no matter the size of your garden. Spraying should begin when the insects first appear, not when they are already heavily infested. Thoroughly cover all plant surfaces. This OMRI listed, NOP compliant insecticide can be used throughout your growing season and up to the day of harvest.

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

1288710	PyGanic Gardening - 8 oz.	\$22.50
1288720	PyGanic Gardening - 32 oz.	\$53.00
1288730	PyGanic Gardening - 1 Gallon	\$198.00



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.

1332820	BotaniGard Maxx - 1 Quart	\$85.00
1332821	BotaniGard Maxx - 1 Gallon	\$280.00
1332822	BotaniGard Maxx - 2.5 Gallons	\$640.00

Case sizes available.



Monterey Take Down Garden Spray

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

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

DESCRIPTION: This spray works on a broad spectrum of insect pests and will attack ALL stages of insect life – eggs, larvae & adults. With canola oil and pyrethrin as active ingredients, you have a spray that will knock them down and hold them down. Can be used as a dormant or growing season spray and does not persist in the environment. Safe to use up to the day of harvest.

SUGGESTED USE: With concentrate formula, mix in either 1% or 2% solution as follows. **1% Solution:** Mix 2 tsps. of concentrate with 1 qt. water or 1 fl. oz. of concentrate with 3 qts. of water. **2% Solution:** Mix 4 tsps. of concentrate with 1 qt. of water or 2 fl. oz. with 3 qts. of water. Shake or stir frequently during use.

1257917	Take Down Garden Spray RTU - 1 Quart	\$11.49
1257915	Take Down Garden Spray Concentrate - 1 Pint	\$19.99

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



Monterey Bug Buster-O

Bugs Take A Beating With This Easy To Use OMRI Listed Spray.

TARGET: A very long list of insect pests on crops and plants grown outdoors.

DESCRIPTION: When you need a quick and thorough knockdown and kill, organic Bug Buster-O is the choice for you. You can begin spraying after one simple step to dilute the product. The active ingredient of Pyrethrins is a potent insecticide and will control more than 100 listed insect pests; however, please take care when applying to avoid harming the bees in your area. Contains PyGanic®. Can be used on day of harvest (just wait for it to dry before entering the treatment area).

SUGGESTED USE: Insects: To avoid possible harm to bees, it's advisable to apply in the early morning or late evening hours. Dilute 1-1.4 fl oz/gallon of water/1,000 sq. ft. Can be applied with all types of agricultural sprayers. Spray when pests first appear, do not wait for an infestation.

1288601	Bug Buster-O - 8 oz.	\$28.49
1288602	Bug Buster-O - 16 oz.	\$53.49

Cannot be shipped to the following states: AR, AZ, IA, ID, KY, ND, NE, NV, WV, WY



MOSQUITO & FUNGUS GNAT CONTROL

BIOLOGICAL CONTROL

Mosquito Bits®

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

TARGET: Mosquitoes and fungus gnats.

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



SUGGESTED USE: Sprinkle 1 teaspoon per 25 sq. ft. or 1 tablespoon per 75 sq. ft. (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	\$18.99

Mosquito Dunks®

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

TARGET: Mosquitoes.

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



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

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

AQUABAC® 200G Granular Bti Mosquito Control



Use This Bti Larvicide Wherever You Have Mosquitoes Breeding

TARGET: Larval stages of mosquitoes and black flies.

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



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

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

AQUABAC® Xt



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

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

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



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

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

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

Earth Juice® goGnats™



A Pleasantly Fragrant & Highly Effective Minimal Risk Pesticide.

TARGET: Gnats, midges, mites, thrips, aphids, whiteflies, moths, mosquitoes, ants and more.

DESCRIPTION: Made of 33% cedarwood oil, goGnats will deliver the broad-spectrum control you need and leave you with a pleasant aroma. This versatile insecticide can be used as a foliar spray or barrier spray, and as a soil drench. It can also be added to most liquid feeding solutions. Can be used in gardens, hydroponics, and on container plants - but **only** use it on ornamental, non-food and non-feed crops. EPA registration exempt under section 25(b) of FIFRA.

SUGGESTED USE: Hydroponics: 1-1.5 fl. oz. /10 gals. of solution. Add to reservoir every 2 weeks at nutrient solution change. **Area Spray:** 2.6 fl. oz. / gal. water. Spray directly on infested area or apply to perimeters to create a barrier. Apply 2 times the first week, then re-apply every 2 weeks. **Plant Spray:** 1.7 fl. oz. /gal. water. Spray entire plant. Apply 2 times the first week, then re-apply every 2 weeks.

- | | | |
|----------------|-------------------------------------|----------------|
| 1458080 | Earth Juice goGnats - 1 Pint Conc. | \$23.49 |
| 1458081 | Earth Juice goGnats - 1 Quart Conc. | \$41.99 |

Cannot be shipped to the following states: AL, AZ, ID, IN, IA, LA, ME, MS, NE, NM, NC, ND, OH, OK, PR, RI, SC, WI



Mosquito Barrier®

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

TARGET: Mosquitoes, gnats and fleas.

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

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

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| 1211001 | Mosquito Barrier - 1 Quart | \$24.50 |
| 1211002 | Mosquito Barrier - 1 Gallon | \$79.90 |

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



SNS 203™ Root Drench Pesticide



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

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

DESCRIPTION: Made of rosemary and clove botanical extracts that cause dehydration and death and will also attack fungus and algae. All botanical extracts are food-grade materials, highly water soluble & completely biodegradable. Created as a root drench, but equally effective as a foliar spray and in hydroponics. For use on a wide range of plants, fruits, and vegetables. 0-hr REI.

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

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| 1459135 | SNS 203 Root Drench Pouch Conc. - Makes 32 oz. | \$7.99 |
| 1459130 | SNS 203 Root Drench - 16 oz. Conc. | \$24.00 |
| 1459131 | SNS 203 Root Drench - 1 Gallon Conc. | \$110.00 |
| 1459132 | SNS 203 Root Drench - 5 Gallons Conc. | \$440.00 |

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



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



Designed To Work All Season Long – Year After Year.

TARGET: Mosquitoes that may carry Zika, Dengue Fever, Yellow Fever, & Chikungunya.

DESCRIPTION: This type of trap was originally developed by the CDC to control and research disease-carrying mosquitoes. This version takes the same design and brings it to the home-owner. Mosquitoes are attracted to dark places with stagnant water to lay their eggs in and these traps mimic those locations. All you will need to add to this clever design is water and a little bit of hay or local dried grass. As mosquitoes arrive to the trap they will enter through the top of the Capture Chamber, but they'll be blocked by the metal screen and will land on the Sticky Board and be captured. Some eggs may still fall through and land in the water; but should they hatch they will not survive and cannot escape through the screen.

SUGGESTED USE: Put together the pieces of the trap (illustrated instructions included), add water and grass/hay and place on the ground near or under vegetative cover. Check traps regularly. Water should always be at least 1/4 full. Replace water and hay/grass every 8 weeks or so. Once the season ends, clean and store upside-down until you need it again.

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| 1280770 | Mosquito Trap - 2 Pack | \$52.25 |
| 1280772 | Refill Sticky Boards - 2 Pack | \$6.40 |



FLY ELIMINATORS



WHAT ARE FLY ELIMINATORS?

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

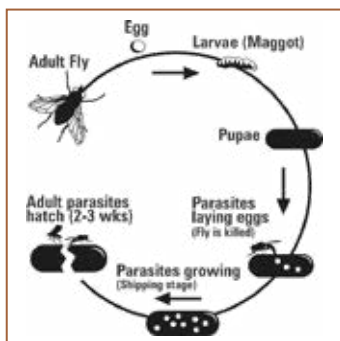


Adult Fly Eliminator emerging from fly pupa.

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

HOW DO FLY ELIMINATORS WORK?

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



Life cycle of the fly parasite.

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

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

Philadelphia Park Recommends ARBICO's Fly Eliminators

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



– Roy Smith, Former Track Manager of Philadelphia Park

WHO USES FLY ELIMINATORS?

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

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

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



HOW DO I USE FLY ELIMINATORS?

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

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



Fly Eliminators and wood shavings in packaging.



Use Your Fly Eliminators the RIGHT Way:

RIGHT Time

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

RIGHT Place

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

RIGHT Amount

- ✓ The more Fly Eliminators, the fewer the flies

RIGHT Schedule

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

Churchill Downs Chooses ARBICO Organics

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

– Butch Lehr, Former Track Manager of Churchill Downs



Del Mar Thoroughbred Club Relies On ARBICO Organics

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

– Joe Harper, Chief Executive Officer of Del Mar



SPECIAL PRICING

LOCK IN THE LOWEST PRICES FOR 2022 PROGRAMS! Sign Up NOW & Pay LATER!

Only \$16.95*

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

Number of Horses/Animals	Suggested Units [†]	Price Per Shipment
1	1/4 Unit	\$13.95
2 - 5	1/2 Unit	\$16.95
6 - 10	1 Unit	\$26.95
11 - 15	1 1/2 Units	\$36.95
16 - 20	2 Units	\$48.95
21 - 25	2 1/2 Units	\$59.95
26 - 30	3 Units	\$69.95
31 - 35	3 1/2 Units	\$77.95
36 - 40	4 Units	\$84.95
41 - 45	4 1/2 Units	\$92.95
46 - 50	5 Units	\$96.95
51 +	Please Call 1-800-827-2847	

Order Your Fly Control Program Today!

***VIP Pricing Valid Through Dec. 31, 2021.**

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. © 2021 Arizona Biological Control, Inc.

Sc Beneficial Nematodes



Add Beneficial Nematodes For Ultimate Fly Control!

TARGET: Fly maggots and other subterranean pests.

DESCRIPTION: These live microscopic organisms (non-segmented round worms) occur naturally in soil throughout the world and are parasitic to fly maggots and other subterranean pests. Upon application, they will seek out and enter maggots through body openings. Once inside, the nematode releases bacteria which kill the host maggot within 24 - 48 hours. The bacteria create a food source for the nematodes to reproduce. As the food resources within the dead pest become scarce, the nematodes exit and immediately begin searching for a new host.



Fly Maggots

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

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

*See page 19 for free shipping details.

PyGanic® Specialty



New Label – Same Terrific Product As PyGanic 5.0!

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

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

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



1288770	PyGanic Specialty - 32 oz.	\$157.00
1288780	PyGanic Specialty - 1 Gallon	\$580.00

Equiderma Horse Spray

This Powerful Spray Has A Light Citrusy Scent.

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

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



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

1107500	Equiderma Horse Spray - 32 oz.	\$28.49
1107501	Equiderma Horse Spray - 1 Gallon	\$99.99

balEnce™ Fly Spray

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

TARGET: Larval and adult flies.

DESCRIPTION: This EPA approved biological insecticide is suitable for organic programs. Consists of a liquid suspension of beneficial entomopathogenic fungi known as *Beauveria bassiana*. The fungus acts as a parasite on flies, causing white muscardine disease. When the microscopic spores of the fungus come in contact with the body of an adult or larval stage of a fly, they germinate, penetrate the cuticle and grow inside, killing the fly within a matter of days. Soon after, a white mold emerges from the cadaver and produces new spores that continue to infect more flies. After application, adult flies and fly larvae die in 24 to 72 hours. Product will continue to remain viable on residual surface areas for up to about 21 days.

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



1272100	balEnce Fly Spray - 15 oz. Bottle	\$116.00
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ADULT FLY TRAPS & REPELLENTS

Biting Fly Trap

No Poisons! No Baits! No Electricity!

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

DESCRIPTION: As discovered by Dr. D. E. Williams of the USDA, biting flies are attracted to sunlight as it shines through a particular type of fiberglass. A cylinder has been created of this fiberglass and coated with a clear sticky substance. They will be drawn in by the glass but unable to escape the stickiness. One trap can catch up to 5,000 flies!



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

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

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

Captivator® & Fly Terminator® Pro Fly Traps

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

TARGET: Filth-breeding flies.

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



The Captivator is a 2-qt size, while the Fly Terminator Pro is a gallon size. The Captivator comes with one 30 gm. water-soluble attractant pouch and the Fly Terminator Pro comes with two. Attractant refills available.

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

1256051	Captivator Fly Trap	\$10.99
1256052	Terminator Pro Fly Trap	\$26.50
1256053	Starbar Fly Trap Attractant Refill - 8 ct.	\$11.50



ARBICO Organics® Solar Fly Trap

FREE SHIPPING

Heavy Duty, Reuseable, Portable & Lightweight Fly Trap!

TARGET: Adult flies.

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

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

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

Replacement parts available online.

*FREE SHIPPING via ground or US Mail ONLY.

4 STEP FLY CONTROL

- 1 Biological Fly Control** – Break the fly lifecycle with a **Fly Eliminators** (see pages 32-33) program!
- 2 Manure & Odor Control** – Limit fly breeding sites by removing manure and reduce odors with enzymes such as SCD ScentGuard (see online).
- 3 Maggot Control** – Use **Sc Beneficial Nematodes** applied to manure piles and other "hot spot" breeding sites.
- 4 Adult Fly Control** – Combine traps to kill reproducing adults, and repellents for horse and rider to avoid bites and potential disease.

Agribon®

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

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

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

- Prolongs the growing season by protecting from frost, sun, and wind damage.
- Protects from drying conditions and conserves water by reducing evapotranspiration.
- Speeds up germination.
- Protects seeds from birds.
- Protects plants from marauding insects.
- Make sure that Agribon is securely installed to ensure that plants are protected to the limits of the product. Use Agribon with loop hoops for plant protection that will remain in place until you remove it.

*** Items in stock!**

Turnaround times are approximate. Standard sizes may require up to 3 week processing time. Shipping Method determined by size and weight. See website or call for ground or freight estimates.

For additional sizes and availability, please call (800) 827-2847.

AG-15		
Lightweight with 90% light transmission, (.45 oz./square yard). Use for pollination control, heat sensitive crops and insect pests on potatoes, greens, cabbages and radishes. Made of spun bonded polypropylene fabric.		
SKU	Size	Retail
3000030	9'10" x 50'*	\$27.00
3000031	9'10" x 250'*	\$63.00
3000034	9'10" x 2000'	\$390.00
3000035	19' x 2000'	\$750.00

AG-19		
Lightweight (0.55 oz. per sq. yd.), protects to 28°F (provides up to 4°F protection), 85% light transmission. Does not require frames or hoops.		
SKU	Size	Retail
3000000	83" x 50'*	\$24.99
3000003	83" x 250'*	\$60.00
3000006	83" x 500'*	\$90.00
3000004	83" x 2000'	\$350.00
3000041	10' x 50'*	\$28.99
3000042	10' x 250'*	\$73.00
3000043	10' x 500'*	\$132.00
3000045	14' x 1000'	\$330.00
3000046	20' x 1000'	\$475.00
3000048	30' x 1000'	\$690.00
3000049	35' x 1000'	\$820.00
3000050	40' x 1000'	\$690.00
3000051	45' x 1000'	\$1,040.00
3000052	50' x 300'	\$385.00
3000053	50' x 500'	\$600.00
3000054	50' x 1000'	\$1,125.00
3000040	61.5" x 3000'	\$360.00

AG-30		
Lightweight (0.9 oz. per sq. yd.), protects to 26°F to 28°F (provides between 4°F – 6°F protection), allows 70% light transmission. Hoops or frames are recommended.		
SKU	Size	Retail
3000010	83" x 50'*	\$19.99
3000013	83" x 250'*	\$90.00
3000060	10' x 250'*	\$140.00
3000062	14' x 800'	\$380.00
3000064	26' x 800'	\$780.00

AG-50		
Highest level of protection, weighs in at 1.5 oz. sq. yd., protects to 24°F (provides up to 8°F of protection), allows 50% light transmission. Hoops or frames are recommended.		
SKU	Size	Retail
3000020	83" x 50'*	\$36.00
3000026	7' x 7' (5/pack)*	\$19.99
3000090	10' x 500'	\$295.00
3000091	10' x 1500'	\$990.00
3000027	14' x 14' (2/pack)*	\$37.25
3000092	14' x 500'	\$405.00
3000028	26' x 26'*	\$60.00
3000093	26' x 500'	\$665.00
3000096	50' x 300'	\$790.00
3000097	50' x 500'	\$1,440.00



Harvest Guard™ Protective Covers

Harvest Guard lightweight covers provide protection from frost, snow and harsh winds in fall, winter and early spring. Covers can be used as seed germination blankets and to protect plants from insects, birds or animals.

Visit www.arbico-organics.com for more information.



SOIL TESTING

LaMotte Garden Guide Soil Test Kit

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

TARGET: Unbalanced soil with unknown pH and NPK levels.

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

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



1275300	LaMotte Garden Guide Soil Test Kit	\$103.00
1275310	Reagent Refill Kit	\$75.00

Luster Leaf® Rapitest® Soil Test Kit

A Quick Way To Test N-P-K!

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

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

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



1275203	Soil Test Kit for N, P, K, pH	\$18.99
1275204	pH Soil Tester	\$6.99
1275205	10 pH Soil Test Capsules - Green	\$3.99
1275206	10 Nitrogen Soil Test Capsules - Purple	\$3.99
1275207	10 Phosphorus Soil Test Capsules - Blue	\$3.99
1275208	10 Potash Soil Test Capsules - Orange	\$3.99
1275210	Combo Pack of Soil Test Capsules (10)	\$12.99

Need to Know More About Your Soil? Understand Over a Dozen Factors With a Complete Soil Analysis. Visit www.arbico-organics.com

Prococo Coco Coir

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

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

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

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



1305580	Prococo Compressed CocoPeat Block - 10 lbs.	\$15.95
1305582	Prococo Compressed Chips-N-Fiber Block - 10 lbs.	\$15.95
1305581	Prococo Compressed CocoChip Block - 10 lbs.	\$15.95

iHort Q-Plug Propagation Kit

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

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

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



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

EM•1® Microbial Inoculant



Faster Breakdown Of Organic Matter.

TARGET: Accelerate decomposition & reduce odors.

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

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



1202098	EM•1 Microbial Inoculant - 16 oz.	\$29.70
1202101	EM•1 Microbial Inoculant - 1 Quart	\$37.00
1202102	EM•1 Microbial Inoculant - 1 Gallon	\$79.70
1202103	EM•1 Microbial Inoculant - 5 Gallons	\$297.00

Call for larger sizes.

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

Unleash™



Get Wide-Ranging Benefits With This Simple-to-Use & Cost-Effective Inoculant.

TARGET: For use on all plants grown indoors and outdoors in soil or soil-less media.

DESCRIPTION: Contains a proprietary blend of rhizobacteria, containing both aerobic and anaerobic microbes, that spurs the growth of beneficial microbes in the root zone to provide multiple benefits to your plants. Microbes grow directly on the roots, where they digest fertilizer and deliver nutrients directly to the plant. Boosts nitrogen availability. Provides nutrients to clones and transplants to encourage growth, protect from pathogens and avoid transplant shock. Excellent for cannabis and hemp. Can be used in almost every system on the market. Can be used with fertilizers, compost teas and other common soil additives. Can also be used in a foliar application to make the treated area more resistant to insect pests and pathogens.

SUGGESTED USE: For a standard application, use 1 ml /1 gal water. Apply once every 2 weeks throughout the plant's life cycle. Soil inoculation/clones: 2 ml/gal water. Transplants: 2 ml/gal water. Vegetative: 1 ml/gal water. Flowering: 1 ml/gal water. Conventional agriculture: 1 liter/acre, split into 2 applications of 500 mL (2 cups). Shake well, then mix the 500 mL with 35 liters (10 gals) of non-chlorinated water. Second application should be applied 3 weeks after the first.



1202190	Unleash - 500 ml	\$89.90
1202191	Unleash - 1 Gallon	\$450.00
1202192	Unleash - 2.5 Gallons	\$1,100.00

Earth Alive™ Soil Activator™



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

TARGET: For use on all types of plants and soils.

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



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

1202170	Earth Alive Soil Activator, 50 gr. / 1.76 oz.	\$6.99
1202171	Earth Alive Soil Activator, 425 gr. / 15 oz.	\$19.99
1202172	Earth Alive Soil Activator, 1 kg. / 2.2 oz.	\$36.99

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

Mikro-Root



This Trichoderma-Based Product Functions As A Bio-Fertilizer.

TARGET: For use on plants, transplants, bedding plants, and as a seed coat.

DESCRIPTION: The two carefully chosen species of Trichoderma in this dry powder work symbiotically to provide substantial growth-promoting benefits. Unlike mycorrhizal fungi, which spread out their hyphae to fill in gaps in the root zone, Trichoderma stimulates the plant's roots themselves to grow wide and strong. Mikro-Root is not only effective on roots, when applied to seeds the Trichoderma spurs higher germination rates. Also provides phytohormones that stimulate roots and spur overall growth, contains trace elements (including phosphorus) that are solubilized and made readily available to the plant, encourages enzyme, phytoalexins and phenol production, and suppresses pathogens with vigorous and healthy root growth. With regular use of Mikro-Root, you can expect a vital and disease-free root system with lots of root hair and lateral growth, strong plant development, improved drought resistance, and increased yields.

SUGGESTED USE: Water Suspension: 1 tsp/gal of distilled or tap water and drench the root area. Repeat every 7-10 days. Dry Application: 1 tsp-1 Tbsp to and around root system while planting/transplanting. Water after applying. Follow with 1-2 applications of the water suspension at 7-10-day intervals.



1202520	Mikro-Root - 2 oz. Pouch	\$15.90
1202521	Mikro-Root - 4 oz. Pouch	\$25.90
1202522	Miko-Root - 5 lb. Pail	\$259.00
1202523	Miko-Root - 30 lb. Pail	\$899.00

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

ARBICO Organics® Root Build 240™ Mycorrhizal Fungi



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

TARGET: The benefits of introducing mycorrhizal fungi to your soil are numerous: accelerate and increase plant growth; increase plant yield and quality; increase absorption of water and nutrients; and promote plants tolerant to disease, drought & salinity.

DESCRIPTION: New Root Build 240 contains both micronized Endo and Ecto mycorrhiza for a wide range of plant applications. This greater diversity in beneficial fungi meets the needs of a greater variety of plants. When introduced early in the life of a plant, the endo and ecto will increase the roots' ability to absorb water and nutrients. Endomycorrhizae work within and around the roots of most vegetables, grasses, flowers and ornamentals while ectomycorrhizae live only on the outside of roots and focus on conifers. The high spore count in Root Build 240 means there will be maximum colonization of your plants' roots. Endo Spores: 240 spores/gr. | Ecto Spores: 1 x 10⁶ spores/gr.

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

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

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



Mikro-Myco



A Heady Combination Of Mycorrhizae, Rhizobacteria & Beneficial Fungi.

TARGET: For use on plants, transplants, root dipping, seeds, bedding plants, and in soil restoration.

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

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

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

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



Great White® Premium Mycorrhizae

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

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

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

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

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

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

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



Down To Earth™ Bio-Live, 5-4-2



This Product Has It All – Including Mycorrhizal Fungi!

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

DESCRIPTION: Made from fish bone meal, fish meal, feather meal, crab meal, alfalfa meal, K-Mag, humates, kelp meal, beneficial bacteria and Mycorrhizal fungi. This great all-purpose goes the extra mile by not only fertilizing but it also helps to stimulate soil root relationships.

SUGGESTED USE: Apply 3-5 lbs./100 sq. ft. at planting and as needed.

1300260	Down To Earth Bio-Live - 5 lbs.	\$17.99
1300261	Down To Earth Bio-Live - 25 lbs.	\$62.99
1300262	Down To Earth Bio-Live - 50 lbs.	\$103.49

Cannot be shipped to the following states: CT, HI, IL, IA, ND, OK, RI, SD, WV, WY, PR



SOIL AMENDMENTS

ARBICO Organics® Compost Plus

Revitalizes Soil And Speeds Up Decomposition Of Organic Matter.

TARGET: Soils in need of nutrients and beneficial microorganisms.

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

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



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® Earthworms - *Eisenia fetida*

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

TARGET: Use in soil or vermicomposting.

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

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



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

Black Soldier Fly Larvae Frass

Contains Nutrients And Chitin For Stronger, Healthier Plants.

TARGET: Soils that need amending.

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

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



1300420	Black Soldier Fly Larvae Frass - 1 lb.	\$9.85
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ARBICO Organics® Earthworm Castings

So Good For Your Garden It's Almost Magical!

TARGET: Soils that need nutrients and microbial life.

DESCRIPTION: A sustainable byproduct of vermiculature, these castings have a bounty of benefits for your soil. They provide a slow release of micronutrients and trace minerals, add microbial life, reduce transplant shock, aerate and condition the soil and add chitinase (which helps in disease suppression and root knot nematode control). Can be used indoors and outdoors on anything you grow and can be used with other fertilizers and amendments.

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



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

Glacial Rock Dust

CDFA Registered, Deep-Down Goodness For Your Plants

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

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

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

1308090 Glacial Rock Dust - 5 lbs. **\$16.95**



Nitron's Humic Acid

Cost-Effective Way To Add Humus To Your Soil!

TARGET: Soils lacking humus.

DESCRIPTION: One of the best natural conditioners for soil. This Liquid Humic Acid is made from compost and Leonardite, which is produced by the natural oxidation of exposed lignite, a low-grade coal.

Applying Liquid Humic acid has the following advantages:

- Penetrates the soil quickly, going directly to the roots for rapid absorption
- Easier to apply than compost
- Can be used with indoor plants
- Can be used with other fertilizers or soil conditioners
- Helps stabilize soil pH
- Increases soil bacteria
- Increases water retention

SUGGESTED USE:

- For indoor plants, 2 tsp./qt. of water.
- For outdoor yards or gardens, apply with a hose-end sprayer; one quart covers 2,500 square feet. Apply twice a year.
- For large acreage, 1 gallon/20 gallons water/acre.

1328401 Nitron's Humic Acid - 1 Quart **\$19.80**
1328402 Nitron's Humic Acid - 1 Gallon **\$39.95**
1328406 Nitron's Humic Acid - 5 Gallons **\$125.00**



Cinderite™

Energize Your Soil With Power From A Volcano.

TARGET: Soil and soilless media in need of re-energizing, re-mineralizing and conditioning.

DESCRIPTION: This premium, OMRI listed soil amendment is a volcanic scoria sourced from ancient volcanoes in the American West. It is full of essential trace minerals that have been trapped deep in the earth and are ready to be slowly released into your soil (or soilless growing media).

The angular and porous nature of Cinderite enhances aeration in the soil and means it can excel at holding water and delivering nutrients efficiently to plants. The volcanic source of this product gives it a paramagnetic charge. All natural/chemical free. Pet safe. Comes in 4 versions.

SUGGESTED USE: Cinderite ParaBlend – For general field applications. Fine enough for microbial decomposition but chunky enough to have soil conditioning properties. **Cinderite ParaFines** - Use like a rock dust; can be broadcast over lawns, sod, or pastures and/or used for germination mediums and microgreens. **Cinderite ParaLite** – Use as a Perlite replacement; increases moisture/nutrient retention while lowering the overall density of the soil. **Cinderite ParaHydro** – Created specifically for hydroponic/aquaponic use.

1308340 Cinderite ParaBlend - 12 lbs. **\$32.95**
1308343 Cinderite ParaFines - 12 lbs. **\$32.95**
1308344 Cinderite ParaLite - 12 lbs. **\$32.95**
1308345 Cinderite ParaHydro- 12 lbs. **\$32.95**



AZOMITE®

A To Z Of Minerals Including Trace Elements.

TARGET: Depleted soils in need of remineralization.

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

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

1309210 AZOMITE - 5 lbs. **\$12.95**
1309211 AZOMITE - 25 lbs **\$25.95**
1309212 AZOMITE - 44 lbs. **\$39.95**



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	1 Pint	\$12.99
1315011	1 Quart	\$18.99
1315013	1 Gallon	\$46.99
1315014	5 Gallons	\$169.99

Larger sizes available.

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



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 - 1 Gallon	\$33.99



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

Versatile Without Unpleasant Odors!

TARGET: Soils requiring rapid nourishment.

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

1315001	1 Pint	\$11.99
1315000	1 Quart	\$16.49
1315002	1 Gallon	\$41.39
1315003	5 Gallons	\$165.50

Larger sizes available.

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



Maxicrop® Liquid Seaweed, 0-0-1

Boost Plant Growth With This Concentrated & Nutrient Rich Fertilizer!

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

DESCRIPTION: Made from *Ascophyllum nodosum* seaweed from Norway, Maxicrop contains over 70 different elements, vitamins and minerals that activate enzyme systems and act as stimulants for root and plant growth. This product will also condition soil, increase pest resistance and is a balanced fertilizer.

A harvested, renewable resource, this product is a sustainable choice to boost the health of your indoor/outdoor plants, gardens and lawns. Due to EPA regulations, this product's label states that it is not intended for use on agricultural food site crops since it is now considered a plant vitamin hormone.

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

1313005	Maxicrop Liquid Seaweed - 32 oz.	\$12.95
1313006	Maxicrop Liquid Seaweed - 1 Gallon	\$29.95
1313007	Maxicrop Liquid Seaweed - 2.5 Gallons	\$58.00



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

Contains Over 60 Naturally Occurring Nutrients & Amino Acids!

TARGET: Plants and crops exposed to stress.

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

1315008	1 Pint	\$11.99
1315007	1 Quart	\$16.99
1315009	1 Gallon	\$41.49
1315010	5 Gallons	\$165.99

Larger sizes available.

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



IV Organic® All Purpose Organic Fertilizers



OMRI Listed. An Organic, Super-Versatile Fertilizer That's Conveniently Sized.

TARGET: For use on fruit and nut trees, ornamentals, roses and other flowers, shrubs, vegetables and potted plants.

DESCRIPTION: These versatile organic fertilizers contain all the primary (NPK) and all the secondary nutrients (Ca, Mg, S) that plants need. They can be used in their original granular form as a soil additive, or you can apply them as a foliar spray, or you can use them in a compost tea. Made to apply just 3-4 times a year. Choose the All Purpose Premium Blend for general fertilizing. Choose the All Purpose Super Blend PLUS Azomite if you want a fertilizer with additional mineralization properties (Azomite is sourced from volcanic rock and contains multiple minerals that will slowly breakdown for long-lasting benefits to your plants).



SUGGESTED USE: Each 11.8 oz bag of All Purpose Organic Fertilizer makes 20+ gals of liquid fertilizer. Each 4 lb. bag of All Purpose Organic Fertilizer makes 120+ gals of liquid fertilizer. Soil: 1 cup for new plants. 3 cups (1 lb) for established plants., vegetables & annuals. Potted plants: 1 Tbsp per gal container. Foliar: 1 Tbsp/gal water. Compost tea: 5 Tbsp/1 cup compost/5 gal container.

1314770	Premium Blend Fertilizer - 11.8 oz.	\$14.95
1314771	Premium Blend Fertilizer - 4 lbs.	\$29.95
1314775	Super Blend Fertilizer Plus Azomite - 11.8 oz.	\$29.95
1314776	Super Blend Fertilizer Plus Azomite - 4 lbs.	\$79.95

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.	\$16.75
1314804	Maxicrop Kelp Meal - 55 lbs.	\$87.00

Surety®



The Power Of Microalgae Provides Soil Conditioning & Nutrition.

TARGET: Any soil or growing medium in need of improvement.

DESCRIPTION: These plant fertilizers are made from microalgae that's produced in a facility in Spain that captures the CO₂ emissions from a natural gas power plant and uses that energy to drive the microalgae cultivation. The end result is an environmentally conscious and sustainable fertilizer with multiple benefits from the microalgae (which is packed with nutrition). It will improve the physical, chemical, and biological properties of soil, optimally deliver nutrition to your plants through all stages of growing, enhance root and crop vigor and much more. Compatible with conventional crop nutrition programs. Surety MA is 100% microalgae, while Surety Soil tops off the microalgae with a fertilizer to boost the NPK.



SUGGESTED USE: Surety MA: Can be used alone or with with crop inputs. Apply foliarly or through fertigation. Foliar: 0.3%-0.5% concentration applied at regular intervals. Soil: 1-4 qts/ acre applied at regular intervals. Hydroponic & Substrate: 1-4/qts acre or in a 0.3%-0.5% volume to volume. Surety Soil: Apply after planting. 1 qt/acre while irrigating row crops. Reapply 3 more times during plant growth cycle.

1202370	Surety MA - 1 Liter	\$16.25
1202372	Surety MA - 2.5 Gallons	\$92.50
1202375	Surety Soil - 1 Liter	\$17.20
1202377	Surety Soil - 2.5 Gallons	\$95.00

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

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.	\$19.99
1313002	Maxicrop Soluble Seaweed Powder - 27 oz.	\$35.00
1313003	Maxicrop Soluble Seaweed Powder - 5 lbs.	\$80.00
1317202	Maxicrop Soluble Seaweed Powder - 44 lbs.	\$399.00

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.	\$4.49
1300201	Down To Earth Acid Mix - 5 lbs.	\$11.79



DTE All Purpose Mix, 4-6-2

Fertilizer For All Of Your Growing Needs!

1300209	Down To Earth All Purpose Mix Mini - 1 lb.	\$4.49
1300207	Down To Earth All Purpose Mix - 5 lbs.	\$11.79



DTE Bat Guano, 7-3-1

High-Nitrogen Fertilizer From Bat Guano.

1300006	Down To Earth Bat Guano Mini - .25 lb.	\$4.49
1300007	Down To Earth Bat Guano - 2 lbs.	\$13.39
1300008	Down To Earth Bat Guano - 10 lbs.	\$37.29



DTE Bio-Live, 5-4-2

A Microbe-Rich Fertilizer To Help Build Living Soil!

1300260	Down To Earth Bio-Live - 5 lbs.	\$17.99
1300261	Down To Earth Bio-Live - 25 lbs.	\$62.99
1300262	Down To Earth Bio-Live - 50 lbs.	\$103.49



DTE Bio-Turf, 8-3-5

Down to Earth Bio-Turf Is Great For Lawns & Gardens!

1300213	Down To Earth Bio-Turf - 6 lbs.	\$13.79
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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.	\$4.49
1300301	Down To Earth Blood Meal - 5 lbs.	\$20.99
1300302	Down To Earth Blood Meal - 20 lbs.	\$62.29
1300303	Down To Earth Blood Meal - 50 lbs.	\$121.19



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.	\$14.39
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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.	\$4.49
1300296	Down To Earth Citrus Mix - 5 lbs.	\$11.79

Larger sizes available - please go online or call.



DTE Crab Meal, 4-3-0

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

1300225	Down To Earth Crab Meal - 5 lbs.	\$15.79
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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.	\$4.49
1300287	Down To Earth Fish Bone Meal - 5 lbs.	\$11.99



DTE Kelp Meal, 1-0.1-2



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

1300280 Down To Earth Kelp Meal Mini - .5 lb. **\$4.49**

DTE Seabird Guano, 0-11-0

Phosphorous Rich Fertilizer & An Herb Grower's Favorite Choice!

1300023 Down To Earth Seabird Guano - 5 lbs. **\$19.39**
 1300024 Down To Earth Seabird Guano - 20 lbs. **\$50.99**

DTE Langbeinite, 0-0-22



Potassium, Magnesium & Sulfur In One Mineral Application.

1300263 Down To Earth Langbeinite - 5 lbs. **\$13.39**

DTE Starter Mix, 3-3-3



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

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

DTE Neem Seed Meal, 6-1-2



Another Outstanding Product From The Well-Loved Neem Tree.

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

DTE Vegan Mix, 3-2-2



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

1300237 Down To Earth Vegan Mix - 5 lbs. **\$11.79**

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. **\$11.39**

DTE Vegetable Garden, 4-4-4



Give Your Vegetable Garden A Powerful Nutrient Boost!

1300299 Down To Earth Vegetable Garden - 5 lbs. **\$11.79**

DTE Rose & Flower Mix, 4-8-4

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

1300233 Down To Earth Rose & Flower Mini - 1 lb. **\$4.49**
 1300231 Down To Earth Rose & Flower Mix - 5 lbs. **\$11.79**

See online for shipping restrictions.



Disease Control

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

RootShield® Plus Granules & RootShield® Plus WP



Use This Biological Fungicide To Eliminate Hard To Control Diseases!

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

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



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

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

1332754	RootShield Plus Granules - 10 lb. Box	\$197.00
1332755	RootShield Plus Granules - 40 lb. Bag	\$428.00
1332756	RootShield Plus WP - 1 lb. Bag	\$132.00
1332757	RootShield Plus WP - 3 lb. Box	\$280.00

Large sizes available.

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

Mycostop®

A Versatile & Highly Effective Stand-Alone Biofungicide.

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

DESCRIPTION: This classic biofungicide contains mycelium and spores of *Streptomyces* Strain K61, a naturally occurring bacterium derived from *Sphagnum* peat. This strain controls some of the most destructive of plant pathogens by rapidly colonizing plant roots, displacing the pathogenic fungi there and robbing it of nutrients; disrupting and ultimately breaking down the cell wall of the pathogens and producing metabolites that constrain the pathogens while encouraging plant defense mechanisms and healthy growth. For best results, use preventatively.



SUGGESTED USE: Can be applied as a seed treatment, in potting media, as

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

1332981	Mycostop - 5 grams	\$36.00
1332982	Mycostop - 25 grams	\$138.00

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

Howler Fungicide



A Super-Effective & Ultra-Versatile Biofungicide.

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

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



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

1332930	Howler Fungicide - 5 lbs.	\$64.50
1332935	Howler Fungicide - 5 lbs. - pack of 3	\$174.00

Cannot be shipped to the following states: HI

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. Don't use at temps 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 **\$124.99**
 Cannot be shipped to the following states: DC, HI, MD, MN, MS, OK, VA, VT



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



Regalia® CG & Regalia®



OMRI Listed Control For Both Bacterial & Fungal Diseases.

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

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

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

1332968	Regalia CG - 1 Quart	\$51.00
1332969	Regalia CG - 1 Gallon	\$117.00
1332970	Regalia - 2.5 Gallons	\$220.00

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



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	\$178.00
1332976	Stargus - 2.5 Gallons - Case of 2	\$340.00

Cannot be shipped to the following states: CA



CEASE® Biological Fungicide



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

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

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

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

1332724	Cease - 1 Gallon	\$84.00
1332727	Cease - 2.5 Gallons	\$180.00
1332725	Cease - 1 Gallon, Case of 4	\$302.40
1332728	Cease - 2.5 Gallons, Case of 2	\$324.00



ZeroTol® HC



Clean Up & Protect Your Plants With One Powerful Product.

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

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

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

1222410	ZeroTol HC - 1 Gal. Conc.	\$42.99
1222412	ZeroTol HC - 1 Gal. Conc. - Case of 4	\$154.76



Procidic®



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

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

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

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

1458220	Procidic RTU - 32 oz.	\$15.99
1458221	Procidic Concentrate - 16 oz.	\$39.50
1458222	Procidic Concentrate - 1 Gallon	\$270.00

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



MilStop SP Foliar Fungicide



Excellent For Controlling Powdery Mildew & Other Fungal Diseases!

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

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

SUGGESTED USE: Generally 2.5 lbs./100 gal. of water. (See label online for specific crops, diseases and application systems.)

1332766	MilStop SP Foliar Fungicide - 5 lbs.	\$65.00
1332767	MilStop SP Foliar Fungicide - 25 lbs.	\$275.00



Thymox® Control Organic



Thyme Oil Control Delivered With Nano Technology.

TARGET: Fungal diseases like Powdery Mildew and Grey Mold and bacterial diseases like Fireblight.

DESCRIPTION: This organic foliar spray combines thyme oil with innovative and proprietary nano emulsion technology to provide a highly effective, broad-spectrum, non-specific fungicide/bactericide. It delivers billions of nano-sized droplets of botanically based thyme oil for superior coverage of plant surfaces and thorough contact with pathogens. Once this product touches the plant surfaces it begins to destabilize and damage the cell of any pathogens it encounters, which causes cell leakage and subsequent death of the pathogen. MR. & FIFRA 25(b) exempt. 0-day PHI & 0-hr REI.



SUGGESTED USE: *Not for aquatic use.* Dilute 1 part of product/200 parts water (0.5%) or 64 fl oz/100 gals of water. Do not apply undiluted. Use immediately after dilution, do not store diluted product. Apply as a foliar treatment any time during growing season, when conditions (humidity, temperature, etc.) promote microbial growth or when fungal disease symptoms first begin to appear. Reapply every 5-7 days, or as needed.

1458380	Thymox Control Organic - 1 Liter	\$47.25
1458381	Thymox Control Organic - 1 Gallon	\$148.99
1458382	Thymox Control Organic - 2.5 Gallons	\$350.99

Cannot be shipped to the following states: AL, AK, AR, CO, CT, DE, FL, HI, ID, IN, IA, KS, KY, LA, ME, MD, MI, MS, MT, NE, NV, NH, NM, ND, OH, PA, RI, SD, TN, UT, VT, VA, WV, WI, WY

Earth's Ally® Disease Control



OMRI Listed & WSDA Certified. Disease Control That You Can Feel Good Using.

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

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



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

1459300	Earth's Ally Disease Control - 24 oz. RTU	\$12.99
1459301	Earth's Ally Disease Control - 1 Quart Conc.	\$23.99

Organocide® Plant Doctor



It Cures And Prevents The Diseases That Sicken Your Plants.

TARGET: Damping-off, rots, cankers, blights, spots, powdery mildew, *Pythium*, *Phytophthora*, downy mildew and more.

DESCRIPTION: This earth-friendly fungicide works to control an extensive list of fungal diseases in turf, fruit trees, vegetables, ornamentals and flowers. Systemic action will move the product throughout the plant's system to attack diseases it comes across and prevent further disease development above and below the ground. With an active ingredient of mono- and di-potassium salts of phosphorous acid, this versatile product will also provide a nutritional jolt that will keep the plant happy and healthy while it fights off disease and encourage it to grow faster and produce more.



SUGGESTED USE: Use as a foliar spray, soil drench, soil incorporation, basal bark application and bare root dip. Apply before diseases develop. Do not apply to plants/trees that are stressed by heat or moisture or are in dormancy. Foliar spray: Apply with sufficient water volumes for adequate coverage of foliage, according to plant type and growth stage. To ensure good coverage, spray to wetness, but avoid run-off. After mixing, agitate during application.

1150070	Organocide Plant Doctor - 1 Pint	\$15.99
1150071	Organocide Plant Doctor - 1 Quart	\$25.99

Cannot be shipped to the following states: DE, HI, IA, ID, MS, ND, NE, SD, WV, WY

Monterey Complete Disease Control



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

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

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



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

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

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



The Power of Peroxyacetic Acid

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

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

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

SaniDate® 5.0



An OMRI Listed Sanitizer/Disinfectant.

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

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

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

1222515 SaniDate 5.0 - 2.5 Gallons **\$208.00**
1222517 SaniDate 5.0 - 5 Gallons **\$308.00**

Larger sizes available. All sales are final. No returns or refunds allowed.
 *Free Shipping in the contiguous 48 states. Ships via Ground ONLY.

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



OxiDate® 2.0



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

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

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

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

1222501 OxiDate 2.0 - 2.5 Gallons **\$240.00**
1222502 OxiDate 2.0 - 5 Gallons **\$370.00**

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

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

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



ZeroTol® 2.0



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

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

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

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

1222401 ZeroTol 2.0 - 2.5 Gallons **\$260.00**
 All sales are final. No returns or refunds allowed.

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

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



Vital Oxide

Kill Dangerous Bacteria & Viruses On All Surfaces.

TARGET: Kills MRSA, *Pseudomonas aeruginosa*, *Escherichia coli*, *Salmonella enterica*, *Staphylococcus aureus*, *Legionella pneumophila*, *Aspergillus niger*, norovirus, human immunodeficiency virus type 1 (HIV-1), *Enterobacter aerogenes*, *Listeria monocytogenes*, *Acinetobacter baumannii*, *Rotavirus*, H1N virus, hepatitis B, hepatitis C, *Klebsiella pneumoniae* and more.



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

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

1457650	Vital Oxide - 3 oz. Spray	\$6.25
1457651	Vital Oxide - 3 oz. - Bundle of 3	\$16.50
1457652	Vital Oxide - 3 oz. - Bundle of 5	\$25.00
1457655	Vital Oxide - 32 oz. (1 Quart) Trigger Sprayer	\$14.95
1457657	Vital Oxide - 128 oz. (1 Gallon)	\$45.95

SaniDate® All Purpose Disinfectant



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

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

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



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

1222519	All Purpose Disinfectant - 64 oz. Conc.	\$14.99
1222520	All Purpose Disinfectant - 1 Gal. Conc.	\$24.99
1222522	All Purpose Disinfectant - 1 Gal. Conc. - Case of 2	\$36.50

FORTIFY SKY



Continuous, Effective Odor Control Delivered From Above.

TARGET: Clone rooms, veg rooms, flower rooms, curing rooms, and other cultivation facilities.

DESCRIPTION: FORTIFY SKY is your no-fuss solution for routine odor control in cultivation facilities. Using a controlled release technology, this innovative product emits trace amounts of pure chlorine dioxide gas from a humidity-activated chlorine dioxide generation system contained in a small pouch. No chemical mixing and no expensive generator technology required. Leaves no residue on surfaces and requires no post-treatment cleanup.

SUGGESTED USE: Use one 50 g pouch to treat 4,000 cubic feet. To treat an area larger than 4,000 cubic feet, use additional pouches at equal spacing. Carefully open outer foil packet and remove inner pouch. Do not open inner pouch. Place inner pouch 12-18 inches above plant canopy by hanging via hole in pouch. Inner pouch is effective for up to 30 days of use. Avoid direct exposure to water.



3000570 FORTIFY SKY - 50 g **\$64.99**

FORTIFY CLEAR



Industrial-Strength, Safe, Ready-To-Use ClO² Concentrate With Multiple Applications.

TARGET: Irrigation systems, hard surfaces, tools and other equipment needing disinfection.

DESCRIPTION: This liquid chlorine dioxide product is designed for use in irrigation systems and to be directly applied for cleaning and disinfecting hard surfaces, tools, and equipment. It can also be used to treat and purify water (see label for details). Quickly and efficiently controls biofilm in irrigation lines and other areas but is also effective against pathogenic organisms like *Raoutella Terrigena* (and other bacteria), Poliovirus, Rotavirus (and other viruses) as well as mold, mildew, protozoa, algae and fungi. It's also first-rate for odor control. When you don't want to use harsh disinfectants like ozone, chlorine bleach, hydrogen peroxide and peracetic acid, this is the clear alternative to choose. Fortify Clear is EPA, FDA, NSF certified and much less corrosive and safer for the environment than many other cleaning/disinfecting options.



SUGGESTED USE: Concentration and contact times are application specific. Minimum contact time for control of listed pathogenic organisms is 5 minutes, but 10 minutes is the average time. Disinfecting in Horticulture & Greenhouses: 250 pp (dilution rate 1:12). Removing Slime: 50 ppm (dilution rate 1:60). Inhibiting Reemergence: 0.25 ppm (dilution rate 12000:1). Cleaning Pots & Flats: 500 ppm (dilution rate 1:6). Greenhouse Glass, Walkways, etc: 125-250 ppm (1:24-1:12).

3000580 Fortify Clear - 5 lbs. **\$514.00**

All sales are final. No returns or refunds allowed.

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

Cannot be shipped to the following states: CA, ME, OR, SD

WEED BARRIERS

WeedGuardPlus® Organic - Heavy Weight Rolls



This Tough Weed Block Will Hold Up Under The Elements!

TARGET: Use for weed suppression.

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



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

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| 1453851 | Heavy Weight - Smooth Finish - 36" x 100' | \$32.99 |
| 1453852 | Heavy Weight - Smooth Finish - 48" x 100' | \$39.99 |

PRE-EMERGENT

BONIDE® Maize® Weed Preventer RTS

This Liquid Corn Gluten Stops Weeds Before They Can Germinate!

TARGET: Both perennial and annual grassy and broadleaf weeds.

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

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



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| 1273018 | BONIDE Maize Weed Preventer RTS - 32 oz. | \$15.49 |
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- Cannot be shipped to the following states: DC

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

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

TARGET: Knockdown control for annual grasses and broadleaf weeds.

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



SUGGESTED USE: Mix 1 quart Gluten-8 to 3 quarts water to make 1 gallon. Each mixed one gallon treats 1,00 sq. ft. Each gallon of Gluten-8 OLP makes enough mixture to treat 4,000 sq. ft.

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| 1273010 | Gluten-8 OLP Liquid Corn Gluten, 1.5-0-0 - 1 Gallon | \$61.00 |
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- *Case sizes available.

SELECTIVE

BONIDE® Weed Beater® Fe

Kill Just The Weeds, Not The Lawn!

TARGET: Selectively controls/suppresses broadleaf weeds, moss, lichens, algae and certain diseases growing in lawns.

DESCRIPTION: This product uses iron to kill the targeted plant – but not the grass – right down to the root within hours of application with no unpleasant odor. Some grass blades or thatch may darken slightly if contacted, but the grass will recover and not be harmed. You can enjoy your lawn as soon as the spray has dried. It's okay to re-seed 1 day after application and apply new grass in 1 week.



SUGGESTED USE: Do not dilute RTU. Do not apply to drought-stressed grass or when daytime temps will exceed 85°F. Do not apply to bentgrass. Do not apply to newly seeded areas prior to grass seed germination. For best results, repeat treatment in 3-4 weeks, but don't apply to the same area more than 4 times a year (not including spot treatments).

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| 1453790 | BONIDE Weed Beater Fe RTU - 1 Quart | \$10.49 |
| 1453791 | BONIDE Weed Beater Fe RTU - 1 Gallon | \$29.99 |
| 1453792 | BONIDE Weed Beater Fe Conc. - 1 Pint | \$14.99 |

Cannot be shipped to the following states: CA

BROAD SPECTRUM

Avenger® Weed Killer



Fast-Acting Natural Herbicide.

TARGET: Broadleaf, crab grass and other unwanted weeds.

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

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



1453808	Avenger Weed Killer - 24 oz. RTU*	\$12.95
1453809	Avenger Weed Killer - 1 Quart Concentrate	\$30.00
1453810	Avenger Weed Killer - 1 Gallon Concentrate	\$90.00
1453812	Avenger Weed Killer - 5 Gallon Concentrate	\$330.00

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

BONIDE® BurnOut Weed & Grass Killer

Fast Acting Weed & Grass Killer!

TARGET: Unwanted grass and weeds.

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

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



1453778	BONIDE Burnout - 1 Quart RTU	\$11.50
1453775	BONIDE Burnout - 1 Quart Concentrate	\$21.59
1453776	BONIDE Burnout - 1 Gallon Concentrate	\$49.99
1453777	BONIDE Burnout - 2.5 Gallons Concentrate	\$111.99

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 - 1 Gallon Concentrate	\$69.99
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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: This ingenious combination of Mint Oil and soaps offers the fast-acting power of toxic weed killers without the risk to health and the environment. This non-selective, post emergent herbicide works best at temperatures over 60°F and generally only takes one application (except for those especially tough weeds). It begins working on contact and does not stop until it has killed down to, and including, the root.

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



1453890	Torched Weed Killer - 1 Gallon	\$50.00
1453891	Torched Weed Killer - 2.5 Gallons	\$105.00

ADJUVANTS & ADDITIVES

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

*Call for freight quote. Call for larger sizes.

RAW Yucca Flow

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

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

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



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

- 1308420 RAW Yucca Flow - 2 oz. **\$18.99**
- 1308421 RAW Yucca Flow - 8 oz. **\$53.99**

Cannot be shipped to the following states: AK, MA, ME, MT, NC, NH, PA, RI, SC, TN, UT, VA, WI

TNB pH Up & TNB pH Down



A Super-Simple, Affordable & Non-Caustic Way To Adjust Your pH Levels.

TARGET: Use when you need to assure that your pH level is right where it needs to be.

DESCRIPTION: Using all natural ingredients derived from Potassium Hydrogen Carbonate (TNB pH Up) and Hydroxypropane Tricarboxylic Acid, (TNB pH Down), these products offer a non-caustic and innovative way to increase pH (potential hydrogen) levels in liquid fertilizers. This granular product is both easy and economical to use – simply add a small amount to your water and you're ready to go. Maintaining the proper pH in the water going to your plants allows for optimal nutrient availability and lush, healthy plants. Won't harm beneficial bacteria. Suitable for use in hydroponics and aquaponics. Contains no harmful chemicals.



SUGGESTED USE: Add a small amount of the contents to your reservoir. Mix well and check the pH level. Repeat as necessary.

- 2000730 TNB pH Up - 1 lb. **\$19.99**
- 2000740 TNB pH Down - 1 lb. **\$19.99**

Cannot be shipped to the following states: OR

Biofilm Buster Pro



Clear Your Lines Without Harsh Chemicals Using The Power of Enzymes.

TARGET: Irrigation and hydroponic lines clogged with biofilm.

DESCRIPTION: When you use organic fertilizers, nutrients and other inputs, biofilm can develop along your irrigation and hydroponic lines. Up until now, the methods to treat biofilm have all had harsh side effects, but this product uses bio-enzymes (not acids) to actively digest all the layers of biofilm. It can be used without the need to flush your system and will restore your system to 100% capacity. In addition, because extended exposure is harmless to plants and equipment, it can be used regularly in preventative maintenance applications. Also effective against non-biofilm deposits like scale. For use in hydroponics and in all irrigation systems, including drip lines, tape and pipes.



SUGGESTED USE: Only use with non-chlorinated water. For serious clogs, set the injector ratio to 1:100. For maintenance and preventative treatments, set the ratio to 1:500. Run system until product is injected throughout the lines. Turn system off and allow product to sit in the lines for at least 8 hours. Turn system on and water plants as normal. Irrigation. Can also be applied directly through a reservoir rather than an injector. For preventative maintenance: Use every 4-8 weeks (See above for ratio to be used).

- 1202200 Biofilm Buster Pro - 500 ml **\$69.00**
- 1202201 Biofilm Buster Pro - 1 Gallon **\$320.00**
- 1202202 Biofilm Buster Pro - 2.5 Gallons **\$775.00**

Boogie Blue Water Filters

A Great Grow Deserves Great Water.

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



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

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

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

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	Bug Blaster Nozzle	\$12.99

LAWN & GARDEN SPRAYERS



BONIDE® Auto Mix Hose End Sprayer

Just A Few Quick Steps To Flawless Spraying

1800010	BONIDE Auto Mix Hose End Sprayer	\$17.99
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Economical Liquid Hose End Sprayer

This Simple Sprayer Does All That You Need It To.

1800106	Economical Liquid Hose End Sprayer	\$11.99
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Flo-Master By Hudson Lawn & Garden Sprayer

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

1800101	Flo-Master Lawn & Garden Sprayer - 1 Gallon	\$10.99
1800102	Flo-Master Lawn & Garden Sprayer - 2 Gallon	\$14.99



Delta Sprayers line of high-quality sprayers are perfect for houseplants, gardens, greenhouses and animal care.

Visit www.arbico-organics.com for more information.

Repeater™ & Little Pete® Multiple Catch Mouse Traps

Catch & Release Multiple Mice At Once!

TARGET: Mice.

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



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

1255101	Little Pete Multiple Catch Mouse Trap	\$13.79
1255100	Repeater Multiple Catch Mouse Trap	\$15.99

The Smart Mouse Trap

A Humane Solution For Trapping Pesky Mice!

TARGET: Mice.

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



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

1255001	Smart Mouse Trap - 1 Per Box	\$14.20
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BONIDE® Mouse Magic

Repel Mice From Homes, Shed, Garages, Campers, Barns, Cellar and More Using Natural Essential Oils!

TARGET: Mice.

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



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

1287710	BONIDE Mouse Magic - 4 Pack	\$8.49
1287711	BONIDE Mouse Magic - 12 Pack	\$23.99

Cannot be shipped to the following states: DC, IN, NM

BONIDE® Rat Magic™

Two Different Ways To Get The Same Great Rodent Control.

TARGET: Use to drive away rats, squirrels, chipmunks and other rodents.

DESCRIPTION: This combination of cedarwood, castor, clove and peppermint oils is repugnant to rodents and triggers an escape/avoidance response in them. This formula comes in two versions, granules and scent packs. Both are biodegradable and easy to use, simply choose what suits your particular needs the best. Not harmful to plants, people or pets.



SUGGESTED USE: Scent Packs: Distribute where rodents hide, feed or congregate. Use 1 pack per average size room and increase as needed until desired affect is achieved. Granules: Barrier/perimeter treatment - Sprinkle to create a band around area to protect. 1 lb. will treat a band 2' W x 100' L. For maintenance, use 1 lb/200 sq. ft. Reapply every 2 weeks or after rains. Indoor Use: Sprinkle where rodents hide, feed or congregate. Vacuum up and reapply every 2 weeks or until infestation is eliminated.

1287720	BONIDE Rat Magic Scent Packs - 8 Count	\$18.99
1287721	BONIDE Rat Magic Granules - 5 lbs.	\$18.99

Cannot be shipped to the following states: **1287720:** CT, IN, ME, NM, SD
1287721: IN, NM

Root Guard Gopher Wire Baskets

Stop Gophers From Damaging Plant Roots!

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

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



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

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

BONIDE® Repels-All® Animal Repellent

Natural Ingredients That Repel A Variety Of Critters!

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

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

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



1287601	BONIDE Repels-All - 1 Quart RTU	\$13.99
1287605	BONIDE Repels-All - 1 Quart RTS	\$27.65
1287606	BONIDE Repels-All - 1 Gallon RTU w/Power Sprayer	\$44.85
1287600	BONIDE Repels-All - 1 Quart Concentrate	\$19.99

Cannot be shipped to the following states: IN, NM

Victor® Mole & Gopher Repellent



A Castor-Oil Based Repellent in Granular & Liquid Formulations.

TARGET: Burrowing animals, including moles, gophers and voles.

DESCRIPTION: Victor Mole & Gopher Repellent is a poison-free repellent that uses the active ingredient of Castor Oil as its driving force. When the oil soaks into the ground, it will contaminate the food sources (earthworms and grubs) of burrowing pests. If the animals ingest it, they will experience digestive distress and just coming into contact with it can cause topical itching. All of this is enough for the diggers to relocate elsewhere.

Granular: Combines the oil with fuller's earth to make easily dispersible granules. Resealable 4 lb. bag treats 4,000 sq. ft. **Liquid:** Contains 100% castor oil. Ready-to-spray 32 oz. bottle attaches to hose, treats 10,000 sq. ft.

SUGGESTED USE: Works best when pests are driven slowly out of the area. Start in an area where there is no tunneling damage and gradually apply in concentric lines toward the border of the affected area. Water product into the soil well.

1287515	Victor Mole & Gopher Repellent - Liquid RTS	\$15.79
1287510	Victor Mole & Gopher Repellent - Granular	\$18.99

Cannot be shipped to the following states: ME, MT, NM



Chase™ Granular Mole & Gopher Repellent

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

TARGET: Gophers & moles.

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

SUGGESTED USE: Apply by hand or with a broadcast or drop spreader.

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

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



Holey Moley

No More Moles Or Armadillos With This Great Granular Repellent!

TARGET: Moles & armadillos.

DESCRIPTION: Holey Moley is a mole repellent that can be used anywhere you have burrowing animals. This product is made from Castor Oil and Fuller's Earth – it does not contain poison. The smell and taste of Holey Moley repels moles and armadillos. Recommended for use in flower gardens, vegetable gardens, on lawns or any area moles and armadillos inhabit.

SUGGESTED USE: For best results, apply before rain or water in for 15 minutes after applying. Apply using a broadcast spreader to the entire lawn. Holey Moley can also be applied to the top of soil in flower and mulch beds and vegetable gardens. The 10 lb. bag treats ≈5,000 square feet. Remains effective for up to 6 weeks.

1216055	Holey Moley - 10 lb. Bag	\$22.99
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Cannot be shipped to the following states: AL





Beneficial Nematodes - Triple Threat

Biological Control For Crawling Insects!

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

ANT CONTROL

Monterey Ant Control



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

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

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

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

1257896 Monterey Ant Control - 2.5 lb. Jug **\$14.99**
Cannot be shipped to the following states: DC, ND, SD, WV



Terro® Ant Baits

Two Ways To Get Rid Of Ants!

TARGET: Sugar and grease-eating ants including argentine, ghost, cornfield, pavement, acrobat, white footed, little black, odorous house, crazy and big headed ants.

DESCRIPTION: Comes in 2 formulations, RTU bait stations and Build-Your-Own.

SUGGESTED USE: Locate indoors or outdoors. Use remaining bait to make your own bait stations with paper or cardboard.

1257403 6 (Pre-filled) Bait Stations **\$7.89**
1257401 Build-Your-Own Ant Killer Kit **\$5.40**



FIRE ANT CONTROL

Orange Guard® Fire Ant Control



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

TARGET: Fire ants.

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

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

1460005 Orange Guard Fire Ant Control - 1 Gallon **\$32.75**

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



CRAWLING INSECT CONTROL

Orange Guard® Home Pest Control



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

TARGET: Crawling pest insects.

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

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

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



Essentria™ G Granular Insecticide

A Granular That Handles A Handful Of Outdoor Pests!

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

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

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

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



Essentria® IC-3 - Concentrate

Kills & Controls Most Crawling & Flying Insects Most Anywhere You Find Them.

TARGET: More than 60 flying and crawling pests including aphids, bedbugs, caterpillars, flies, mites, mosquitoes and ticks.

DESCRIPTION: This essential oil insecticide contains rosemary oil, geraniol and peppermint oil to provide immediate knockdown and long-term residual control. It can be used in food preparation areas, schools and other places where there is a high level of human traffic. It can also be applied directly to livestock, horses and poultry. This FIFRA 25(b) exempt product has Octopamine blocker technology and has no water setbacks.

SUGGESTED USE: Can be used indoors, outdoors, in fogging and mosquito misting systems on plants, turf and ornamentals and as a perimeter barrier. Can also be applied directly to livestock, horses and poultry. May be diluted with water or oil (for livestock applications). Use lower application rates for maintenance and higher for infestations. General pest control indoors (don't apply directly to houseplants): 0.5-6 fl. oz./gal. water. Bedbugs: 1-4 fl. oz./gal. water and apply as a spot treatment. Mound drench for fire ants: 2-4 fl. oz./gal. water. Mosquitoes and other biting insects: 1-3 fl. oz./gal. water. Turf/grass: 2-4 fl. oz./gal. water. Trees and shrubs: 1-2 fl. oz./gal. water.

1273055 Essentria IC-3 - Conc. - 1 Quart **\$40.99**

1273056 Essentria IC-3 - Conc. - 1 Gallon **\$129.99**



Perma-Guard™ Crawling Insect Control



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

TARGET: Any crawling or hopping pest insect.

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

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

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

1218260 Perma-Guard Crawling Insect Control - 5 lb. Bag **\$18.00**

Case sizes available.

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



EcoPCO® AR-X Multi-Purpose Insecticide

Quick Pest Knockdown In A Gentle Botanical-Based Formula!

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

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

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

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

Ships via Ground ONLY.





Enoz® BioCare® Birdseed & Pantry Moth Traps

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

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

Enoz® BioCare® Clothes Moth Traps

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

1260702	2 Traps	\$8.35
1260703	3 Pack - 2 Traps per Pack	\$23.25

Enoz® BioCare® Flour & Pantry Moth Traps

Stop Sharing Your Food With Pesky Moths.

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

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

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

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

Enoz® Trap-N-Kill® Earwig Traps

Get These Moisture-Loving Insects Out Of Your Space Without Using Poison.

1280220	3 Pack	\$5.99
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Enoz® Trap-N-Kill® Flea Trap

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

1280110	1 Trap	\$16.99
1280111	Pack of 3 Traps	\$45.87

Enoz® Trap-N-Kill® Roach Traps

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

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



Harris Bed Bug Detection Traps

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

1240315	Harris Bed Bug Detection Traps - 4 Pack	\$6.79
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Harris Cricket Traps

Chirping Driving You Mad? Get These Traps.

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

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

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

Harris Roach Traps

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

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

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

1280210	Harris Spider Traps - 2 Pack	\$6.79
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Catchmaster® Crawling Pest & Insect Traps

A Really Easy Way To Rid Yourself Of Sneaky Crawling Insects.

1260205	Crawling Pest & Insect Traps - 4 Pack	\$3.02
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Catchmaster® Pantry Pest & Moth Traps & Attractant

Keep Moths From Making Your Foodstuffs Their Dinner.

1280310	Pantry Pest & Moth Traps & Attractant - 2 Pack	\$5.89
1280311	Pantry Pest & Moth Traps & Attractant - 4 Pack	\$8.98

SaniDate® Sanitizing Wipes

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

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

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

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

1222513	SaniDate Sanitizing Wipes - 125 Count	\$10.99
1222514	SaniDate Sanitizing Wipes - 650 Count	\$39.99



SaniDate® Dry Wipes

Add Your Solution Of Choice & Create Your New Favorite Cleaning Wipes.

TARGET: Surfaces that need cleaning and/or sanitizing.

DESCRIPTION: Would you like to reduce your plastic waste? Are you tired of buying wipes that dry up before you can use them all? These dry wipes are an answer to that. You simply add whatever cleaning/sanitizing/disinfecting solution you choose to the container, saturate the wipes, close the container, and pull them out one-by-one fully wet and ready to use. In this way, you can buy one liquid product and use it multiple ways – just add more solution to your wipes as needed if they dry out. Additionally, the large size of this container means you'll need to buy less often. Can be used with hydrogen peroxide, peroxyacetic acid, and other sanitizing solutions.

SUGGESTED USE: Open container by removing the Snap-On lid. Saturate the wipes with desired cleaning, sanitizing, or disinfecting solution. Pull wipe from center of the roll through the center of the lid and replace lid tightly. Adhere the solution label to the outside of the bucket. Close the flip-top at the center of the lid after use to keep wipes moist.

1222509	SaniDate Dry Wipes - 650 Count	\$39.99
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SaniDate® Hard Surface Sanitizer

A Great Alternative To Chlorine Bleach, Phenol & Ammonia Cleaners.

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

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

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

1222510	SaniDate Hard Surface Sanitizer - 1 Qt. RTU	\$7.99
1222511	SaniDate Hard Surface Sanitizer - 1 Gal. RTU	\$24.99



Vital Oxide

Kill Dangerous Bacteria & Viruses On All Surfaces.

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

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

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

1457650	Vital Oxide - 3 oz. Spray	\$6.25
1457651	Vital Oxide - 3 oz. - Bundle of 3	\$16.50
1457652	Vital Oxide - 3 oz. - Bundle of 5	\$25.00
1457655	Vital Oxide - 32 oz. (1 Quart) Trigger Sprayer	\$14.95
1457657	Vital Oxide - 128 oz. (1 Gallon)	\$45.95



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ABOUT ARBICO ORGANICS

ARBICO Organics began in 1979 when Rick Frey began rearing and selling insects that parasitize developing flies (Fly Eliminators). Rick and Sheri's passion for the environment grew into Arizona Biological Control.

In the early '80s, as demands for Fly Eliminators grew, ARBICO expanded to a 10 acre facility nestled in the Catalina Mountains north of Tucson. We are proud to provide carefully curated pesticide-free and non-toxic solutions for your home, garden, agricultural and livestock needs. In 2011, ARBICO expanded to a facility that includes a retail location, offices and warehouse in Oro Valley, AZ. This main facility houses our team of personnel that offer our customers education and support.

What started with one bug has grown to include so much more - forty years of environmental stewardship and service to our customers. It is our joy and privilege to provide solutions for you to create and nourish what you grow.



Fly Eliminators launch as first product.



ASK THE EXPERTS

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

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

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Credit Cards (ARBICO accepts all major credit cards) and **PayPal**.

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

We do not accept cash via mail.



CUSTOMER SERVICE

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

• Se habla Español

Toll Free: 800-827-2847

International calls: 520-825-9785

Fax: 520-825-2038

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Oro Valley, AZ 85737-9531

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This publication is designed and produced by ARBICO Organics solely for informational purposes. Reasonable efforts have been made to provide accurate information, but errors may occur. All insect quantities are approximate (and the "double tilde" symbol ≈ so indicates). All prices are subject to change without notice. Product specifications are provided by the manufacturers and are also subject to change without notice. Photographs are for illustrative purposes only.

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