

ARBICO *organics*[®]

NATURAL & ORGANIC IPM SOLUTIONS

• EARLY SPRING 2021



CULTIVATE YOUR BEST

PREDATORY INSECTS
BIORATIONAL INSECTICIDES
WEED & DISEASE CONTROL

SEED STARTING
SOIL FERTILITY
GROWING SUPPLIES



Serving Growers Since 1979.

IPM

Integrated Pest Management



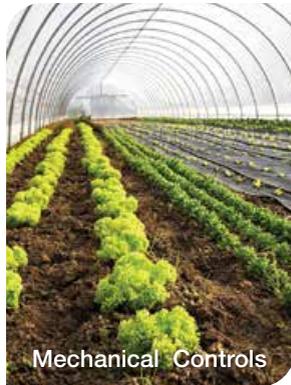
Planning & Record Keeping



Trap & Monitor



Cultural Controls



Mechanical Controls



Biological Controls



Natural Pesticides & Botanicals

KEY RESOURCES



Planning & Record Keeping

- Design a plan
- Establish economic thresholds
- Start a journal
- Record everything



Trap & Monitor

- Learn which pests are common in your area & attacking your plants
- Determine a pest threshold
- Use traps to keep track of pest populations
- Check growing areas regularly
- Keep Records! Monitor what is happening in your area



Cultural Controls

- Prepare the soil or growing medium
- Choose resistant plant species
- Rotate crops
- Use cover crops or trap crops
- Use beneficial fungi and bacteria
- Adjust irrigation practices



Mechanical Controls

- Use pheromone lures to attract & trap adults
- Handpick pests
- Practice weed management
- Use physical barriers – row covers, root baskets
- Use mechanisms to scare pests – flash tape, ultrasonic repellent



Biological Controls

- Beneficial insects
- Beneficial mites
- Beneficial organisms



Natural Pesticides & Botanicals

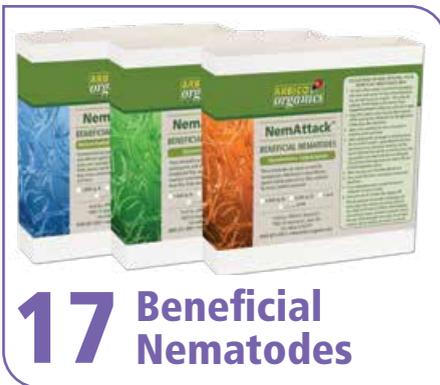
- Herbicides
- Insecticides
- Fungicides
- Bactericides

Find the solutions you need to develop your IPM plan throughout this catalog, or visit www.arbico-organics.com.

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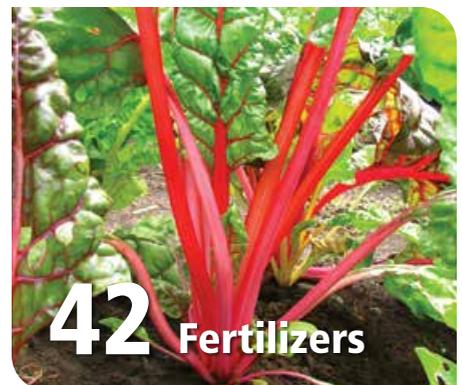
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How To Contact Us:
800-827-2847
www.arbico-organics.com
customercare@arbico.com

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

Assassin Bug - *Zelus renardii*



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



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

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

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

Temperature: 55-110°F

Relative Humidity: 10-75%

1000105	≈250 Eggs	\$25.00
1000106	≈500 Eggs	\$40.00
1000107	≈1,000 Eggs	\$65.00

Larger sizes available.

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



ADVANTAGES

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

Minute Pirate Bug - *Orius insidiosus*

Excellent General Predator In Field Crops & Greenhouses.



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

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

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

Temperature: 64-82°F

Relative Humidity: Moderate ≈60%

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

Overnight Shipping Required

Green 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
1110100	≈5,000 Eggs on Cards	\$28.50
1110102	≈10,000 Eggs on Cards	\$45.00
1110105	≈25,000 Eggs on Cards	\$90.00
1110005	Larval Frames ≈400 Larvae	\$25.00**
1110010	≈1,000 Larvae in Bottle	\$24.00**
1110006	≈100 Adults	\$44.00**
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.

Ladybugs - *Hippodamia convergens*

Ladybugs Consume A Vast Quantity Of Soft-Bodied Insects.



TARGET: Aphids, chinch bugs, asparagus beetle larvae, thrips, alfalfa weevil larvae, bean thrips, grape root worm, Colorado potato beetle larvae, whiteflies, mites and many other soft-bodied insects and eggs.

DESCRIPTION: One of the most common of all beneficial insects, ladybugs are shipped to you in the adult stage. Each adult consumes about 5,000 aphids. The number of ladybugs per shipment is approximate.

SUGGESTED USE (Depending upon level of infestation): Shipped as adults. Release prior to or at the onset of infestation. Use more or less depending on your level of infestation and crop.

Temperature: Moderate: 62-88°F **Relative Humidity:** Minimum 40%

1112500	≈500 Adults	\$12.95
1112525	≈1,500 Adults	\$19.95

Larger sizes available.

Subject to seasonal availability.

Expedited Shipping Required

Praying Mantids - *Tenodera aridifolia*

Don't Be Fooled, Their "Praying" Front Legs Are Actually Designed To Grasp Prey!



Target: Aphids, leafhoppers, mosquitoes, caterpillars and other soft-bodied insects when young. Adults will eat beetles, grasshoppers, crickets and other pest insects.

Description: Shipped in their egg cases, each egg contains ≈50-200 baby mantids. Mantids can be used in conjunction with other beneficials. Beware, they will eat other beneficials if pests are not available.

Suggested Use (Depending upon level of infestation): Begin releases during early Spring. Attach egg cases to branches of shrubs, trees or other plants at a notch between the trunk or stem and offshoot branch. Egg cases can also be attached with wire or twist ties. Do not place on the ground as they are easy prey for ants. Mantids can also be hatched inside a paper bag when kept in a warm place. Upon hatching, release immediately to avoid cannibalism.

Temperature: Moderate: 70-90°F **Relative Humidity:** Low-High ≈40-95%

1121000	1 Egg Case	\$4.95
1121001	3 Egg Cases	\$13.48
1121101	10 Egg Cases	\$41.15

Seasonal availability.

Ships US Mail

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



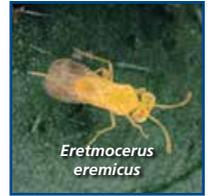
Integrated Pest Management of Whiteflies

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 24) or Neem based sprays.
7. Clean tools and equipment as well as greenhouse structures between growing seasons. See Cleaning & Sanitizing on page 51.

Whitefly Parasite - *Eretmocerus eremicus*

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

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



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

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

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

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

Overnight Shipping Required

Whitefly Parasite - *Encarsia formosa*



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

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



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

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

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

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

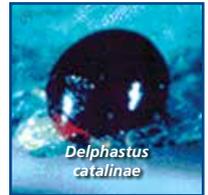
2nd Day Shipping Required

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

Whitefly Predator - *Delphastus catalinae*

These Tiny Brown Beetles Consume Several Hundred Pests Daily!

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



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

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

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

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

Overnight Shipping Required

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



Integrated Pest Management of Fungus Gnats

1. Monitor and trap with yellow sticky traps to assess the severity of infestation.
2. Control soil moisture by providing proper drainage, avoiding standing water and allowing media to dry between waterings.
3. Circulate air and prune plants to ensure adequate air flow.
4. Prevent and treat infestations with *Bacillus thuringiensis israelensis* (see page 29).
5. Apply NemAttack *Steinernema feltiae* Beneficial Nematodes to parasitize fungus gnat larvae as well as thrips.
6. Rove beetles (*Dalotia coriaria*) are excellent predators that can establish in growing environments and control multiple soil dwelling pests.
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.

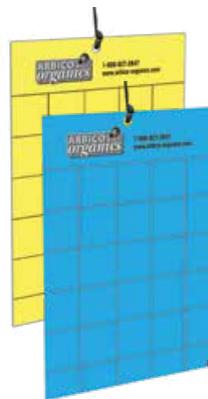
SUGGESTED USE (Depending upon level of infestation): ≈5,000-10,000 mites treat approximately 1,000 sq. ft. Release ≈25,000-50,000/acre depending on level of infestation. Apply weekly until infestation subsides. Weekly release programs available. Please Call. Trap adult infestations using Blue Sticky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

Monitor & Identify Using Sticky Traps



Trapping is the most efficient way to monitor your crop for pest insects and can often indicate the insect's presence early enough that other control measures can be taken. Bright yellow traps attract whiteflies and aphids while blue traps can draw thrips and leafminers.

See pages 14-15 for more options.

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



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 15).

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	\$80.00
1152221	≈200,000 in 400 Mini Sachets w/Hooks	\$90.00
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



**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.**





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.

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	\$150.00
1101350	≈25,000 in 200 Mini Sachets on Sticks	\$162.00
1101325	≈62,500 in 250 Sachets w/Hooks	\$225.00
1101322	≈125,250 in 6 x 328 ft. Strips of Sachets	\$670.00
1101355	≈125,000 in 1,000 Mini Sachets on Sticks	\$690.00

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.

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- TREC

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.

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 - *Neoseiulus (=Amblyseius) californicus*

Good For Areas Where Temperatures Fluctuate Greatly Such As Deserts.

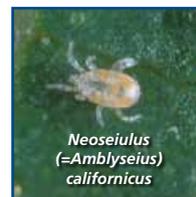
TARGET: Various spider mites, cyclamen mites, broad mites and russet mites.

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.

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

1151201	≈1,000 Count	\$35.00
1151208	≈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.

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
1151405	≈25,000 Count	\$350.00

Overnight Shipping Required



Neoseiulus (=Amblyseius) fallacis

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.

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



Phytoseiulus persimilis

Spider Mite Destroyer - *Feltiella acarisuga*

We Recommend This Predator When Spider Mite Infestations Are Widespread & Severe.

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

DESCRIPTION: The entire life cycle is about 15 days. Adults are about 2 mm long, pinkish-brown, and have long legs. Adults do not prey on spider mites, but drink water and nectar. The female adult gall-midges actively search for spider mite colonies and deposit eggs next to them for about 5 days. Eggs laid are .1 x .25 mm in size and are shiny and translucent. They hatch in 2 days. The larvae that hatch from the eggs are .2-2 mm in length and are orange-brown. They feed on all stages of the spider mite for 4-6 days, depending on the temperature, humidity and abundance of spider mites. Larvae pupate inside a white cocoon, usually on the underside of leaves along the veins. It takes 4-6 days to produce an adult.

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

1155701	≈250 Count	\$144.00
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Overnight Shipping Required



Feltiella acarisuga

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.

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

1113301	≈100 Count	\$98.00
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Overnight Shipping Required



Stethorus punctillum



Universal Release Boxes

Distributing bulk or loose predatory insects and mites within the crop can be arduous and inconsistent. Consider using release boxes to provide safety and protection for predators as well as clean and uniform dispersal.

See online for ordering options.

MEALYBUG/SCALE CONTROL

Mealybug Parasitoid - *Anagyrus spp.*

Stop Destructive Mealybugs With This Beneficial Parasitoid.

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

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



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	\$32.00
1132061	≈200 Mummies	\$60.00
1132072	≈500 Mummies	\$120.00

Currently only available for sale within the state of CA.

Overnight Shipping Required

Mealybug Destroyer - *Cryptolaemus montrouzieri*

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

Image Citation: Nijel Cruz

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



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	\$49.95
1114703	≈250 Adults	\$97.00
1114704	≈500 Adults	\$194.50
1114705	≈1,000 Adults	\$330.55
1114710	≈5,000 Adults	\$990.00

Overnight Shipping Required

Red Scale Parasite - *Aphytis melinus*

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

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



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

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

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

1122001	≈10,000 Adults	\$27.00
1122002	≈25,000 Adults	\$57.00
1122003	≈50,000 Adults	\$109.00

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 has been inoculated with ≈2,400 eggs per tab.

SUGGESTED USE (Depending upon level of infestation): Use ≈1 tab/300 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



BT NOW®

An Extremely Effective Biopesticide That Controls Crop-Damaging Caterpillars.

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

DESCRIPTION: Uses a strain of *Bacillus thuringiensis kurstaki* to provide broad spectrum control for a long list of 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: CA, HI, DC

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)	\$30.00
<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)	\$30.00
<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)	\$30.00
<i>Trichogramma pretiosum</i> - row crops, vinyards		
1131021	3 Tabs	\$15.00
1131003	6 Tabs	\$20.00
1131022	1 Card (30 Tabs)	\$30.00

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.

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 **\$13.50**
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 **\$74.99**

Cannot be shipped to the following states:

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

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	\$125.00
1259613	Yellow Stiky Tape - 12" wide x 530' long	\$175.00

*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 *Frankliniella*.

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



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™

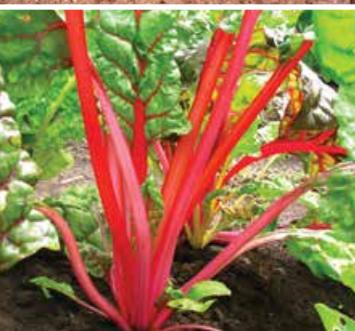
Apply To Soil For Control Of Target Pests:

- 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.

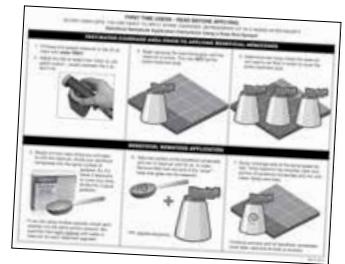
How Do I Apply Beneficial Nematodes?

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 actively seeks 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 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 ■

These 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 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* (Ri)
- ◆ = 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.



Asian Citrus Psyllid (ACP) Detector

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

1254220	ACP Detector - 4 Pack (4 Traps/8 Hangers)	\$10.99
1254221	ACP Kit (1 Lure, 2 Traps, 2 Hangers)	\$8.99
1254222	ACP Lure - 2 Pack	\$8.99

Codling Moth & Oriental Fruit Moth Trap

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

1254600	Codling Moth & Oriental Fruit Moth Trap (2 Traps/2 Lures)	\$8.50
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Monterey Citrus Leafminer Trap & Lure

Monitor & Trap Damaging Leafminer Species!

1555638	Monterey Citrus Leafminer Trap & Lure - Pack of 2	16.99
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Monterey Peach Tree Borer Trap

An Easy To Install Pheromone Trap Designed To Attract Borers.

1555640	Monterey Peach Tree Borer Trap (2 Traps & 2 Lures)	\$11.50
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Cannot be shipped to the following states: CO, NM



See full line of Scentry traps & pheromone lures online.

Apple Maggot Trap Kit



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

TARGET: Apple Maggots (*Rhagoletis pomonella*)



DESCRIPTION: In their search

of the perfect piece of fruit to lay their eggs in, the female apple maggot just can't resist a plump red apple. These red spheres will appeal to that weakness and entice her right over. However, once they land on this trap, the adhesive will grab them and their quest will be over.

SUGGESTED USE: Fold together the 2 parts of the sphere and attach wire holder. Brush adhesive on all parts of the sphere. Place traps along the perimeter row. If you have had apple maggot damage in the past, place some in the interior as well, or place in each tree: trees less than 8 ft. = 1 trap, large trees (20-25 ft.) = 6-8 traps (these are suggested amounts, always adjust to your individual needs). Clean and/or replace every 2-3 weeks or when they fill with insects.

1239210	Apple Maggot Trap Kit - 1 Kit (Contains 25 apple spheres, 25 wire holders and 2 cans of 8 oz. brush-able adhesive.)	\$46.99
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Maggot Barriers



Protect Your Fruit & Vegetables All Season Long With This One Application.

TARGET: Apple maggot flies, codling moths, plum curculio and more.

DESCRIPTION: With easy-to-use Maggot Barriers you can provide insect protection for your fruit from the time they are fruitlets until they are ready to be picked, without using traps or pesticides. This simple solution provides a low-tech nylon barrier that you just slip on. As your fruit grows, the barrier will stretch to provide continuous protection. Maggot Barriers replaces those irksome double plastic and brown bags. The breathable nylon of these barriers also serves to prevent mildew and mold from forming on the fruit. While originally designed for use in trees to protect fruit, Maggot Barriers have been shown to be effective on many vegetable crops as well.



SUGGESTED USE: Use to protect growing stone fruits, including pears, apples and Asian pears, from pest infestations. Apply when fruitlets are less than 1" in diameter. Cover fruit completely and twist the open end around stem to close seal.

1403302	Maggot Barriers - 1 Box/140 count	\$12.95
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IV Organic® 3-In-1 Tree Guard Paint

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

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

DESCRIPTION: Trees can easily fall victim to insects, the sun and rodents; this easy-to-use tree paint offers an eco-friendly solution. This paint is made with Neem oil, which deters insects by repelling them, coating and smothering them. Additionally, it's fatal if ingested. This product contains Castor oil, which has a taste that most rodents and other small animals find repugnant. Sunburn and sunscald can cause great stress to a tree and can lead to death. This highly reflective paint will keep a good portion of the sun's damaging rays out. Goes on very easily and requires only one application per year.



SUGGESTED USE: One can contents should cover approximately 12 young tree trunks (3 gal. size) with a single coat. Fill can with powder and oil vial from can, fill with water and stir.

1240100	3-in-1 Tree Guard Paint - 1 Pint White	\$34.95
1240101	3-in-1 Tree Guard Paint - 1 Pint Brown	\$34.95
1240102	3-in-1 Tree Guard Paint - 1 Pint Green	\$34.95
1240115	3-in-1 Tree Guard Paint - 1 Gallon White	\$199.95
1240116	3-in-1 Tree Guard Paint - 1 Gallon Brown	\$199.95
1240114	3-in-1 Tree Guard Paint - 1 Gallon Green	\$199.95

Case sizes available.

Tanglefoot TangleGuard Banding Material® & Tree Tanglefoot® Insect Barrier



Protect Your Trees From The Elements Or Add A Sticky Coating & Keep Insects Away Too.

TARGET: Ants, vine weevils, canker worms, gypsy moths, winter moths and other crawling insects.

DESCRIPTION: Tanglefoot TangleGuard Banding Material can be used on its own to protect your trees from sun-scald, rodent/animal feeding, and objects that could hit them. When you apply Tree Tanglefoot Insect Barrier to it, the two form a strong and sticky barrier that will thwart any insects crawling up a tree to feed on or nest in it. This 3" x 50", ready-to-use banding is lightweight, waterproof, and will not smother or otherwise harm your tree. But it's strong enough to last all season. Insect barrier is a non-toxic, oil based, non-drying adhesive that will also last all season, or until covered by insects.

SUGGESTED USE: Insects: Wrap tree tightly from base to trunk. On rough bark, plug the gap under the band with cotton batting, foam or similar material. Brush on a thin layer (1/16") of adhesive. Use adhesive at temps above 60°F. Replace banding when sticky areas become covered with insects and debris. Remove banding at end of season.



1266035	TangleGuard Banding Material (3" x 50' roll)	\$6.95
1266030	Tree Tanglefoot Insect Barrier - 15 oz. tub	\$12.50
1266040	Kit - 1 Roll Banding Material & 1 Tub Insect Barrier	\$17.99

Monterey Fruit Tree Spray Plus

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

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

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



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

1257930	Fruit Tree Spray Plus - 1 Pint	\$21.99
1257932	Fruit Tree Spray Plus - 1 Quart	\$34.99
1257931	Fruit Tree Spray Plus - 1 Pint RTS	\$26.99

BONIDE® Citrus, Fruit & Nut Orchard Spray

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

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

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

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



1247610	Citrus, Fruit & Nut Orchard Spray - 1 Pint Conc.	\$15.99
1247611	Citrus, Fruit & Nut Orchard Spray - 1 Quart Conc.	\$23.49
1247612	Citrus, Fruit & Nut Orchard Spray - 32 oz. RTS	\$24.99

MULTI-PURPOSE

Organic JMS Stylet-Oil®



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

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

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

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

- | | | |
|----------------|--------------------------------------|----------------|
| 1274107 | Organic JMS Stylet-Oil - 1 Gallon | \$36.00 |
| 1274108 | Organic JMS Stylet-Oil - 2.5 Gallons | \$51.00 |

*Call for freight quote. Larger sizes available.

Cannot be shipped to the following states: AR, DC, IL, IN, IA, KS, KY, LA, MN, MS, MT, PR, RI, SD, TN, UT, WV, WI, WY (15 and 30 gallon drum sizes not available to OR)



SuffOil-X®



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

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

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

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

- | | | |
|----------------|-------------------------------------|-----------------|
| 1332805 | SuffOil-X - 2.5 Gallons | \$70.00 |
| 1332806 | SuffOil-X - Case of 2 ct./2.5 Gals. | \$126.00 |

Larger sizes available.

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

Cannot be shipped to the following states: AK, DC



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

- | | | |
|----------------|-------------------------|-----------------|
| 1274200 | PureCrop1 - 16 oz. | \$38.00 |
| 1274201 | PureCrop1 - 1/2 Gallon | \$95.00 |
| 1274202 | PureCrop1 - 1 Gallon | \$190.00 |
| 1274203 | PureCrop1 - 2.5 Gallons | \$475.00 |

Larger sizes available.



Gargoil®



Affordable Yet Powerful Control!

TARGET: Soft-bodied insects, larvae/crawlers and fungal diseases like powdery mildew, downy mildew & *Botrytis*.

DESCRIPTION: Using a combination of two powerful active ingredients (cinnamon oil and garlic) in high doses (15% and 20%, respectively), this organic, plant-based product works fast to provide dependable protection for all crops. Controls the immature forms of many insects and supplies preventative control of fungal pathogens. Can be combined with, or used in rotation with, other insecticides and fungicides. Zero Pre-Harvest Interval (PHI). Will not harm beneficial insects, but may repel bees. Do not apply less than 3 days prior to pollination.

SUGGESTED USE: To maximize effectiveness, a spreader-sticker is recommended. The use of silicone-based or non-ionic surfactants will enhance product coverage. The optimum pest pressure to start applications is 0-5%. Repeat every 7-10 days. Spray-to-wet only, good coverage is essential.

Insect Control: 1-2 qts./acre in a minimum of 50 gals. water. **Disease Control:** 2 qts./acre in a minimum of 50 gals. water.

- | | | |
|----------------|--------------------|----------------|
| 1458370 | Gargoil - 1 Gallon | \$98.49 |
|----------------|--------------------|----------------|

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



Rango™



Three Types Of Control Delivered Through Superior Suspension.

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

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

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

1450570	Rango - Concentrate - 32 oz.	\$34.95
1450572	Rango - Concentrate - 1 Gallon	\$89.95
1450573	Rango - Concentrate - 2.5 Gallons	\$174.95



ECOWORKS EC®



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

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

DESCRIPTION: Derived from 100% cold-pressed neem oil, ECOWORKS EC contains Azadiractins, neem limonoids, fatty acids, esters and synergistic inert for top-notch bioactivity. Effective against a wide range of biting and sucking insects, soil-borne pests, and several devastating fungal diseases, this is also an exceptional fly repellent. Can be applied as a foliar spray, soil drench, in soil-less media or in recirculating systems. This residue-free formulation is EPA registered, UV stabilized to reduce risk of crop burn and has a 0-day PHI.

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

1450551	EcoWorks EC - 4 oz.	\$9.79
1450553	EcoWorks EC - 16 oz.	\$25.99
1450554	EcoWorks EC - 32 oz	\$43.99

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



NEEM OIL

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 & 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 Spray Bottle	\$12.49
1555614	Monterey 70% Neem Oil - 1 Pint Concentrate	\$24.99

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**
1332892 BioCeres WP - Case of 1 lb. Bags/12 ct. **\$880.00**

Cannot be shipped to the following states: CA



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



PFR-97™ 20% WDG

Directed Fungal Growth Is The Key To This Remarkable Insecticide.

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

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

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

1332870	PFR-97 20% WDG - 5 lbs.	\$225.00
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Cannot be shipped to the following states: AK, AL, AR, IA, UT



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



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 /gal water. For severe infestations: 1/2 /gal water every 3rd day. Powdery Mildew/weak solution: 1/2 oz/31 1/2 oz water. Soft bodied insects/medium solution: 1-1 1/2 oz/31 oz water. Infestations/strong solution: 2-2 1/2 oz/30 oz water. Preventative: seeds/transplants: 1/2-1 oz/qt water; soil amendment: 1 cup/5 gals water; foliar spray: 1/2 cup/1 gal water.

1459200	The Amazing Dr. Zymes Eliminator - Quart RTU	\$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: AL, CT, DC, ID, IN, KS, LA, ME, MS, NE, NM, ND, SD



Eco-1® Fruit & Vegetable Spray



Works Three Ways To Keep Your Plants Safe.

TARGET: Insects: aphids, mealybugs, psyllids, scale crawlers, thrips, multiple whitefly species, two-spotted spider mites, red mites, broad mites, Colorado potato beetle, lily leaf beetle and more. Fungal diseases: Leaf spots, scabs, blights, rots, powdery mildew, gray mold and Anthracnose.



DESCRIPTION: This OMRI listed spray is a blend of Linseed, Rosemary, Thyme and Peppermint Oils that will kill insect pests on contact through suffocation and will prevent and suppress fungal pathogens by disrupting the cell walls of spores and hyphae. This pleasant-smelling spray can be used on all plants (including edibles), whether grown indoors, outdoors or anywhere in between. Contains no petroleum solvents. No adjuvants, surfactants or penetrants needed. Vegan friendly. FIFRA 25(b) exempt from EPA registration.

SUGGESTED USE: Use in handheld sprayers, pump sprayers and foggers. Dilute with water above 45°F. Light insect & disease pressure or slow growing plants: 4-12 fl oz / gal water and apply once every 7-14 days. Heavy insect & disease pressure or fast growing plants: 8-24 fl oz/gal water and apply 1-2 times every 7 days. Do not apply to wilted or otherwise stressed plants or to new transplants prior to root establishment. Do not apply when temps exceed 90°F and do not spray directly on blooms.

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| 1458130 | Eco-1 Fruit & Veg. Spray - Conc. - 8 oz. | \$19.99 |
| 1458131 | Eco-1 Fruit & Veg. Spray - Conc. - 32 oz. | \$39.99 |
| 1458135 | Eco-1 Fruit & Veg. Spray - RTU - 32 oz. | \$14.99 |

Cannot be shipped to the following states: CT, DC, IN, ME, MS, NM, PA, SD, WV

Garlic Barrier®

Protect Your Plants With Garlic!

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

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

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



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| 1452602 | Garlic Barrier - 1 Quart | \$11.99 |
| 1452603 | Garlic Barrier AG+ - 1 Gallon | \$73.80 |
- Call for larger sizes.



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

SNS 209 All Natural Systemic Pest Control Concentrate

This NOP Compliant Insecticide Works From The Inside Out To Provide Long-Lasting Control.

TARGET: For use against spider mites, whiteflies, fungus gnats, thrips, root aphids, scales and more.

DESCRIPTION: This unique product formula contains rosemeric acid, a derivative of the rosemary plant, that the plant will uptake and spread throughout its structure. The presence of this acid in the plant cells forms a barrier that insects find distasteful. Once a feeding insect comes in contact with the rosemeric acid, they retreat and look for a more suitable food source. Contact with rosemeric acid can be fatal depending on the size of the pest affected and that pest's maturity. SNS 209 stays in the plant's leaves, stems and roots and can't be diluted by the elements. This provides complete protection for all parts of the plant.



SUGGESTED USE: This product may be used as a foliar spray or as a root drench. Use daily or every few days until it begins working in 1-2 weeks. It will be effective for up to 3 weeks. Discontinue use once it starts working and then reapply every 14-28 days as needed. Do not overuse.

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| 1459100 | SNS 209 Systemic Concentrate - 1 Pint | \$24.00 |
| 1459102 | SNS 209 Systemic Concentrate - 1 Gallon | \$110.00 |

Surround® WP



An Effective Crop Protectant That Creates A Barrier Between The Crop & Pests.

TARGET: Apple maggots, codling moths, glassy-winged sharpshooter, Japanese beetles, leafhoppers, lesser apple worms, oriental fruit moth, pear psylla, plum curculio, rose chafer, silverleaf whiteflies, stink bugs, thrips, tufted apple bud moths.



DESCRIPTION: Made from specially modified kaolin clay, Surround WP forms a barrier that protects from many pests when sprayed on fruits or vegetables. The white barrier repels pests, causes irritation, confusion, and is an obstacle for feeding and egg-laying. Kaolin clay is highly recommended for apples, wine grapes, citrus, pears, walnuts, cucumbers and tomatoes.

SUGGESTED USE: Surround WP can be applied with standard commercial sprayers, hand-held sprayers and backpack sprayers.

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| 1440065 | Surround WP - 25 lb. Bag | \$56.25 |
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- Ships via Ground ONLY.

Please note: Growth enhancers are not registered in the state of California.

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



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.	\$170.00
1222205	AzaGuard - 32 oz. - Case of 4	\$598.00
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.	\$39.00
1288750	Azera Gardening - 32 oz.	\$96.00
1288760	Azera Gardening - 1 Gallon	\$350.00



Molt-X™



An Excellent Knockdown Spray With Multiple Modes Of Insecticidal Action!

TARGET: Aphids, whiteflies, thrips, fungus gnats, leafhoppers, leafminers, leafrollers, sawflies, webworms, mealybugs, scale, root knot nematodes and cutworms.

DESCRIPTION: An emulsifiable concentrate containing **3% Azadirachtin**. While it is derived from neem seed, it is not a neem oil. Works primarily as an Insect Growth Regulator that disrupts the molting process of the insect. Acts as an insect repellent, antifeedant and deters egg-laying.

SUGGESTED USE: Rates: For outdoor crops, vegetables and ornamentals use Molt-X at a rate of 8 to 10 ounces/acre and 15 ounces/acre for nematode control. The rate may be increased up to 22.5 oz/acre if pest pressure is extremely high or if plant canopies are very dense. For greenhouse, shadehouse, interiorscape and nursery crops use Molt-X at a rate of 8 to 10 ounces/100 gallons.

1332770	Molt-X - 1 Pint	\$125.00
1332771	Molt-X - 1 Quart	\$200.00
1332772	Molt-X - 1 Gallon	\$570.00

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



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.	\$22.00
1288720	PyGanic Gardening - 32 oz.	\$51.00
1288730	PyGanic Gardening - 1 Gallon	\$192.00



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.

Shipping Restrictions: Cannot ship via US Mail.



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	\$17.49

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



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.	\$150.00
1288780	PyGanic Specialty - 1 Gallon	\$550.00



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. (½ lb. per 2178 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. in 5 Gal. Bucket	\$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

MOSQUITO & FUNGUS GNAT CONTROL

BONIDE® Mosquito Beater Granules

Simply Sprinkle These For Lasting Mosquito Relief!

TARGET: Mosquitoes.

DESCRIPTION: Made from biodegradable essential oils, these granules can be sprinkled right from the container for mosquito control wherever you need it (although it is not for aquatic use). It takes only 1 hour for this lovely smelling repellent to be effective and then it will retain its efficacy for 3 weeks. If treating larger areas, allow a longer period prior to occupancy.

SUGGESTED USE: Rainfall, temperature and wind may affect effectiveness. For optimal results, apply in the early evening in dry conditions with little or no wind. Broadcast directly from the container or apply with a lawn spreader, dust gun or a hand crank duster (available online). Reapply as needed.

- 1211305** Mosquito Beater Granules - 8 oz. (Treats 1,500 sq. ft.) **\$7.99**
- 1211310** Mosquito Beater Granules - 1.3 lbs. (Treats 4,000 sq. ft.) **\$15.49**



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, ID, IN, IA, LA, ME, MS, 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.

- 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



Mosquito Magician

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

TARGET: *Aedes Aegypti* mosquitoes, gnats, no-see-ums and other biting, flying insects.

DESCRIPTION: Mosquito Magician is a liquid, highly concentrated product that suffocates larvae in the standing water where they breed, kills adult mosquitoes on contact and repels for up to 2 weeks in a single treatment. Made with a combination of citronella, cedar, lemongrass, garlic, geraniol and rosemary oils, Mosquito Magician sprays in a very fine mist for maximum coverage and control. Mosquito Magician has been tested on the *Aedes aegypti* mosquito and was shown to have a 98% mortality rate and an 83% long term repellency rate from just one application. This is the mosquito that carries the Zika, West Nile and Chikungunya viruses, as well as malaria and dengue fever.

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

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

- 1211140** Mosquito Magician - 16 oz. Concentrate **\$22.99**
- 1211141** Mosquito Magician - 32 oz. Concentrate **\$39.99**
- 1211142** Mosquito Magician - 1 Gallon Concentrate **\$99.99**
- 1211145** Mosquito Magician - 1 Gallon RTU **\$24.99**

Mosquito Magician Yard Sprayer Combos

- 1211146** Hose End Sprayer & 1 Gallon Mosquito Magician **\$99.95**
- 1211147** Pump Up Sprayer & 2 Pints Mosquito Magician **\$79.95**
- 1211148** Pump Up Sprayer & 1 Gallon Mosquito Magician **\$129.95**
- 1211149** Pump Backpack Sprayer & 1 Gal. Mosquito Magician **\$199.95**



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. Weight - 1.5 lbs. Box size - 12 1/4 x 26 1/2 x 1 1/2 inches.



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

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.	\$26.99
1107501	Equiderma Horse Spray - 1 Gallon	\$99.99



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	\$86.00
1256005	ARBICO Organics Solar Fly Trap - Includes 4 Baits	\$108.00
1256002	ARBICO Organics Fly Bait for Solar Fly Trap	\$9.99
1259990	ARBICO Organics Solar Fly Trap - 2 Pack	\$160.00
1259991	ARBICO Organics Solar Fly Trap - 3 Pack	\$234.00
1259992	ARBICO Organics Solar Fly Trap - 4 Pack	\$300.00

Replacement parts available online.

*FREE SHIPPING via ground or US Mail ONLY.

Captivator® Fly Trap

A Budget Friendly Fly Trap That's A Real Workhorse.

TARGET: Filth-breeding flies.

DESCRIPTION: This lightweight, yet heavy-duty, 1/2 -gallon (2 qt.) sized trap can stand up to the elements and keep working for months of fly control. 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 lots of flies. Comes with one 30 gm. water-soluble attractant pouch.



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

1256051	Captivator Fly Trap	\$10.99
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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.

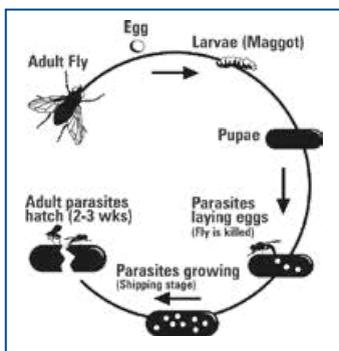


Adult Fly Eliminator emerging from fly pupa.

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 SPECIAL EARLY BIRD PRICES FOR 2021 PROGRAMS!
Sign Up BY APRIL 30, 2021!

Only \$19.95*
 Per Shipment for 2-5 Horses
 USPS Shipping Included** in Prices!

Number of Horses/Animals	Suggested Units [†]	Early Bird Special Price!*	Price After April 30 TH
1	1/4 Unit	\$16.95	\$18.95
2 - 5	1/2 Unit	\$19.95	\$21.95
6 - 10	1 Unit	\$29.95	\$32.95
11 - 15	1 1/2 Units	\$39.95	\$43.95
16 - 20	2 Units	\$51.95	\$57.95
21 - 25	2 1/2 Units	\$64.95	\$71.95
26 - 30	3 Units	\$75.95	\$83.95
31 - 35	3 1/2 Units	\$86.95	\$95.95
36 - 40	4 Units	\$96.95	\$106.95
41 - 45	4 1/2 Units	\$107.95	\$118.95
46 - 50	5 Units	\$110.95	\$121.95
51 +	Please Call 1-800-827-2847		

Order Your Fly Control Program Today!
 *Early Bird Offer Expires April 30, 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.

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

†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.

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.

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.

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.

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.

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.

For sizes and availability, please call (800) 827-2847 or visit www.arbico-organics.com.

Harvest Guard™ Protective Covers

Ultra Lightweight! For Shrubs, Plants, Lawns & Crops.

TARGET: Protect ornamentals, trees, plants & crops.

DESCRIPTION: Harvest Guard Protective Covers retain warmth and moisture while venting excess heat. Made from 1.6 oz. reemay, they provide protection from frost, snow, ice and harsh winds in fall, winter and early spring. Use when temperatures are as low as 29°F. Covers can be used as seed germination blankets and to protect plants from insects, birds or animals.

SUGGESTED USE: Drape covers loosely, allowing slack for plants to grow. To shield from wind, secure every 6-8 ft. using nails, rocks, etc. To shield from pests, bury edges 1-4 inches. Keep in place for up to 8 weeks, depending on temperatures. Apply liquid fertilizers or water directly to or under cover. Remove during pollination, for tomatoes and peppers at 80°F, and for all plants at 85°F. To germinate grass seed, spread cover over packed seeds, secure every 6-8 ft., keep soil moist for 5-7 days, and lift up when blades grow through. Leave on until grass is several inches tall.



1269514	Harvest Guard - 10' x 12' Cover	\$14.99
1269507	Harvest Guard - 10' x 15' Cover	\$13.99
1269509	Harvest Guard - 40' x 50' Cover	\$13.99
1269510	Harvest Guard - 5' x 25' Cover	\$14.99
1269516	Harvest Guard - 10' x 20' Cover	\$24.99
1269512	Harvest Guard - 5' x 50' Cover	\$29.99

Subject to seasonal availability.

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

Bontone II Rooting Powder



An Economical Way To Get First-Rate Rooting

TARGET: Use to speed up root development in cuttings and transplants and to treat seeds, bulbs and corms.

DESCRIPTION: The active ingredient in this product is the root hormone *Indole-3-butyric acid*, a well-respected ally of propagators for many years. This powder version is super-simple to use (just cut, dip and plant) and extremely cost effective (1.25 oz. of product should treat about 2,800 average cuttings). This is also an extremely versatile product that can be used on a long list of plants, including (but not limited to) ornamentals, houseplants, vegetables, flowers and fruit trees. Can also be used to get your seeds going.



SUGGESTED USE: General applications: Take cuttings from a vigorous healthy plant and stir cut ends in this product. Plant treated cuttings in a rooting medium such as potting soil. Mist regularly. Keep rooting medium moderately moist until roots are established. Treated cuttings should be kept in air temperatures at or above 60°. General treatment of seeds, bulbs, corms or roots into a sealed bag or container: Place this product and bulbs, corms or roots into a sealed bag or container. Shake well to deposit a light coating.

2000110 Bontone II Rooting Powder - 1.25 oz. **\$4.69**

E-Z Root™



At Last! An Organic Rooting Compound Without Hormones.

TARGET: For use on all types of rooted and unrooted cuttings and on transplants.

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



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

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

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 buffing, 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**

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. **\$14.95**
1305582 Prococo Compressed Chips-N-Fiber Block - 10 lbs. **\$14.95**
1305581 Prococo Compressed CocoChip Block - 10 lbs. **\$14.95**

NutriRoot®, 2-2-3



A Fertilizer And Water Management Product In One Brilliant Formulation.

TARGET: To accelerate root development and for water stress management in new plantings, mature trees, shrubs, landscapes or lawns.

DESCRIPTION: This ingenious blend of seaweed extract, nutrients, humic acid, humectants and surfactants is easy-to-use, yet highly effective. It provides valuable nutrition and microbial life to the root zone to encourage robust root development. But, through its humectants, it will also enable the soil to extract water from the air and deliver it right to the root zone. Use on established plants or transplants and you will see marked improvement in plant vigor in no time. Mitigates sand and/or dry soil. Reduces seasonal pressure and hinders water run-off.

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

1300350	NutriRoot - Conc. - 8 fl. oz.	\$12.99
1300351	NutriRoot - Conc. - 32 fl. oz.	\$29.99
1300352	NutriRoot - Conc. - 32 fl. oz. - CA label	\$29.99
1300353	NutriRoot - RTS w/hose-end sprayer - 32 fl. oz.	\$36.99
1300354	NutriRoot - Conc. - 1 Gallon	\$99.99
1300355	NutriRoot - Conc. - 1 Gallon - CA label	\$99.99

Cannot be shipped to the following states: SKUs 1300350, 1300351, 1300353 & 1300354 - AK, DC, IL, NM, OK, OR and SKUs 1300352 & 1300355 - All but CA



Down To Earth™ Starter Mix, 3-3-3

Feed Your Young Plants Well With This Nutrient & Mycorrhizae Mix. See page 47.

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



Olivia's Cloning Solution®

Give Your Plants Just What They Need As They Grow.

TARGET: Use in propagation to promote rapid and robust root development and growth.

DESCRIPTION: This concentrated liquid contains a root stimulating plant hormone derived from the White Willow (*Salix alba*) tree, Indole-3 butyric acid, and NPK nutrients. These ingredients provide new cuttings what they need for a spectacular start and continued robust growth. Can be used daily to root and feed and to keep the medium moist. For hydroponics or soil and with root cubes and cloning machines. Can be used on all plants.

SUGGESTED USE: Mix 6 oz. (3/4 cup)/gal. of water. Take your cuttings/clones/slips and immediately place in mixture or cut and place immediately in your growing medium. Water daily with mixture until roots appear. For best results, keep growing medium or soil moist and warm with bottom heat (75-85°F)

2000820	Olivia's Cloning Solution - 1 Quart	\$12.95
2000821	Olivia's Cloning Solution - 1 Gallon	\$36.95

Case sizes available.



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.

Cannot be shipped to the following states: HI



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.	\$16.49
2000065	Great White Mycorrhizae - 4 oz.	\$39.95
2000066	Great White Mycorrhizae - 8 oz.	\$69.95
2000067	Great White Mycorrhizae - 32 oz.	\$229.95
2000072	Great White Mycorrhizae - 5 lbs.	\$380.70

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



Plant Success Organics Granular™, 3-1-2



Create A Living Soil For Stronger, Healthier Plants With This OMRI Listed Blend.

TARGET: New plantings in a variety of soils and climates.

DESCRIPTION: Carefully crafted from mycorrhizae, bacteria, trichoderma and an all-purpose fertilizer, this granular formula will build a microbial system on and around plant roots while feeding the beneficial organisms. Root colonization encourages stronger and quicker root growth, increases water and nutrient uptake and creates a healthy soil that can better fight off soil-borne diseases. Apply by simply sprinkling into plant hole, or by mixing with soil, and see fast-growing, heartier plants in no time.

SUGGESTED USE: Spread the granular at the bottom of the planting hole. When filling the planting hole, spread product in close proximity to the roots. Amounts needed: seed (4" pot): 1/4 tsp., 1 gal. container: 1 tsp., 3 gal.: 4 tsp., 5 gal.: 2-4 Tbsp., 1" caliper stem: 4-6 Tbsp., 2" caliper stem: 5-8 Tbsp. When mixing into potting soil or soilless media, use 4-6 oz./2.5 cu. ft. of soil.

2000068	Plant Success Organics Granular - 4 oz.	\$9.99
2000069	Plant Success Organics Granular - 1 lb.	\$19.99



Down To Earth™ Bio-Live, 5-4-2



This Product Has It All – Including Mycorrhizal Fungi!

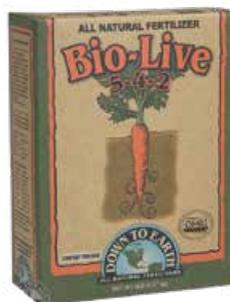
TARGET: Soils depleted of both nutrients and beneficial microbial activity.

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: AL, AR, CT, HI, IA, KS, MS, ND, OK, RI, SC, SD, VT, WV, WY, PR



MICROBIAL INOCULANTS

Biojuvant® Beny-Gro™

These Microorganisms Work Together To Work Better For You.

TARGET: Use to support health, encourage growth and improve yields in all plants grown in all media.

DESCRIPTION: Beny-Gro consists of 7 microorganisms from 3 groups formulated together to create a microbial community that works symbiotically to provide multiple benefits for your plants. *Bacillus* and *Lactobacillus* spur root development, balance the microbial environment and produce organic acids that solubilize nutrients. Phototrophic bacteria work in anaerobic and aerobic conditions to convert or degrade organic and inorganic compounds into simple forms. Due to the low pH (3.9) of this product, do not apply undiluted to young, developing plants. Works exceptionally well in hemp production and hydroponic growing.

SUGGESTED USE: No pre-incubation or pre-mixing required. Simply dilute and apply. Potted plants: 1/4 - 1/2 Tbl/cup of water. Foliar spray: Dilute 1:500 w/water & apply. Hydroponic: 5 mL/gal nutrient solution or water. Seed/Clone treatment: Dilute 1:500 w/water & soak for 15 minutes.



1202751	Biojuvant Beny-Gro Conc. - 1 Liter	\$23.00
1202752	Biojuvant Beny-Gro Conc. - 1 Gallon	\$69.85
1202755	Biojuvant Beny-Gro Conc. - Case of Liters/12 Ct.	\$199.99
1202756	Biojuvant Beny-Gro Conc. - Case of Gallons/4 Ct.	\$252.00

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



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.	\$26.00
1202101	EM•1 Microbial Inoculant - 1 Quart	\$35.00
1202102	EM•1 Microbial Inoculant - 1 Gallon	\$75.00
1202103	EM•1 Microbial Inoculant - 5 Gallons	\$290.00

Call for larger sizes.

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



SumaGrow®

Improve Your Brix Levels & Save Money With This OMRI-Listed Liquid Concentrate

TARGET: A broad spectrum of seeds and plants grown in soil.

DESCRIPTION: This awarding-winning microbial inoculant is made of liquid humates and a carefully chosen assortment of beneficial microbes. It boosts plant health and increases production, but it can also remediate soil and improve its water retention capability. Healthier, more nutrient-rich plants from vibrant soil require less fertilization – a significant cost saver over time.

SUGGESTED USE: For best results, apply 3 times during the first 5-7 weeks of vegetative growth. Smaller areas: Dilute 6 oz./gal. water and distribute evenly over 1,000 sq. ft. Subsequent applications at sowing or planting: 3-4 oz./1 or more gals. water. Larger areas: Dilute 1 gal./acre with adequate water (approx. 8 oz./2500 sq. ft.). Subsequent applications: .5 gals/acre (4 oz./2500 sq. ft.)

1202130	SumaGrow - Quart	\$18.75
1202131	SumaGrow - Gallon	\$70.00

Larger sizes available.

Cannot be shipped to the following states: AR, IL, SD



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



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

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

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



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

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

Bond® pH Balance Tester



Three Easy Steps To An Accurate pH Reading

TARGET: Soils with unknown/unbalanced amounts of pH.

DESCRIPTION: Having the proper soil pH can help your plants with nutrient availability, avoid nutrient leaching, fight toxic elements and much more. This easy-to-use tool can give you the pH range specific for what you are growing within minutes. Comes with an extensive list of pH ranges covering specific types of flowers, shrubs, fruits and nuts, trees and vegetables. Probe requires no batteries and can penetrate up to 5 inches. Suitable for indoor or outdoor use.

SUGGESTED USE: (1) Prepare the soil - Loosen to a depth of 5" and thoroughly wet to a mud-like consistency. (2) Prepare the soil tester - Using a fine scrubbing pad, polish a 4" section located above the sharpened point to a shine (do not polish the sharpened tip). (3) Testing - Push the tester into the soil to a depth of 4-5". Twist the tester several times to ensure proper contact. Wait 1 minute for the tester to adapt before taking a reading. If there is no reading, re-polish the tester and insert in a different area.



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| 1275225 | Bond pH Balance Tester | \$13.25 |
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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.



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| 1275300 | LaMotte Soil Test Kit | \$66.25 |
| 1275310 | Reagent Refill Kit | \$45.95 |

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.



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| 1275203 | Soil Test Kit for N, P, K, pH | \$16.00 |
| 1275204 | pH Soil Tester | \$5.99 |
| 1275205 | 10 pH Soil Test Capsules - Green | \$3.19 |
| 1275206 | 10 Nitrogen Soil Test Capsules - Purple | \$3.19 |
| 1275207 | 10 Phosphorus Soil Test Capsules - Blue | \$3.19 |
| 1275208 | 10 Potash Soil Test Capsules - Orange | \$3.19 |
| 1275210 | Combo Pack of Soil Test Capsules (10) | \$9.99 |

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

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)	\$34.00
1308020	ARBICO Organics Earthworms (~2,000)	\$49.50
1308050	ARBICO Organics Earthworms (~5,000)	\$99.00

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



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

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

ArborChar® All Purpose Grow



This 5-6-4 Fertilizer/Biochar Blend Improves Your Soil & Feeds Your Plants.

TARGET: Soils in need of structure, water retention capabilities, organic matter, and nutrients for plant growth.

DESCRIPTION: Made with biochar from 100% untreated, unpainted hardwood and a fertilizer with an NPK of 5-6-4, this remarkable mix has almost too many qualities to list. The biochar alone increases soil permeability (even in sandy or clay soils), sequesters carbon, reduces nutrient leaching, and boosts water retention capabilities. The fertilizer provides primary and secondary nutrients and organic matter. Together, these two elements create a soil that promotes robust root growth and smoother nutrient uptake, uses less water, and needs fewer nutrient inputs to provide the building blocks for outstanding plant growth. It has a neutral pH and produces minimal dust. Will not burn sensitive plant material. Can be used on potted plants, vegetables, herbs, annuals, perennials, trees and shrubs.



SUGGESTED USE: Mix in at least 1" below the surface in new planting beds, around established plants, or in root zone when planting. Repeat applications throughout the growing season every 2-4 weeks to maintain optimal nutrition. Water in thoroughly after application. Do not apply to plants that are damaged by herbicides. Do not apply during temperature extremes (less than 40°F or more than 90°F) or in a 48 hours period when these extremes are expected.

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| 1306030 | ArborChar All Purpose Grow - 1 lb. | \$14.99 |
| 1306031 | ArborChar All Purpose Grow - 4 lbs. | \$39.99 |
- Cannot be shipped to the following states: AK, CA, DC, MT, NE, OR, SD, UT

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. OMRI listed.



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

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 |
|----------------|----------------------------|----------------|



MontanaGrow™ Soil Amendments



These Organic Soil Amendments Can Do Wondrous Things For Your Soil & Your Plants.

TARGET: Soils in need of remineralization and improved texture.

DESCRIPTION: These soil amendments began as amorphous volcanic tuff from ancient volcanoes. This tuff contains silicon that becomes available to plants once it is added to soil. This organic powder provides soil with macro and micro nutrients and improves its texture and water retention capabilities. Plant benefits include improved cell wall strength and photosynthesis, a high cation exchange capacity, improved carbon sequestration, greater tolerance to temperature extremes, stronger disease resistance and more. Available as a smooth soil amendment or in a chunkier granular form.

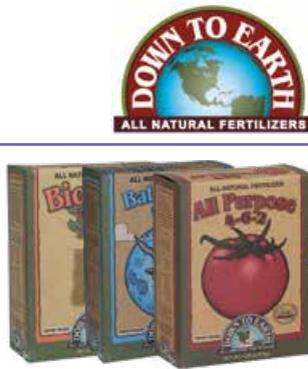
SUGGESTED USE: Mix 1/2 - 1 cup/7.5 gals of growing medium or 4 - 8 oz./cu. ft. of growing medium. Use 100-200 lbs. per acre. Top dress plants with 2 tbsp. every 7-14 days as needed. Can be used with most insecticides, herbicides and fungicides. Works well with fertilizers.



- | | | |
|----------------|--|----------------|
| 1308370 | Silicon Soil Amendment - 5 lb. Jug | \$24.99 |
| 1308371 | Silicon Soil Amendment - 25 lb. Poly Bag | \$64.99 |
| 1308372 | Silicon Soil Amendment - 50 lb. Poly Bag | \$79.99 |
| 1308360 | Silicon Granules - 4.3 lb. Jug | \$29.99 |
| 1308361 | Silicon Granules - 25 lb. Poly Bag | \$79.99 |
| 1308362 | Silicon Granules - 50 lb. Poly Bag | \$99.99 |

Down To Earth™

Down to Earth makes organic fertilizers that boost soil health and encourage plant growth in an earth-friendly and sustainable manner. Nutrients provided by the fertilizers give your plants that needed extra boost for vigorous growth and the countless microorganisms in the soil will thrive with the extra sustenance and keep your soil healthy. Have a small garden? Try the new "mini" sizes.



Maxicrop

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



JH Biotech, Inc.

JH Biotech, Inc. manufactures traditional and organic products for home and commercial use. Their products can be used in locations such as greenhouses, nurseries, field crops and gardens. Their Research Division is dedicated to improving food productivity without sacrificing quality or safety.



Neptune's Harvest

Neptune's Harvest, a division of Ocean Crest Seafood, makes their fertilizers from the fish that they catch in the nutrient-rich North Atlantic Ocean. In this way, they utilize 100% of the seafood they harvest. These highly nutritious protein fertilizers are made by using a cold process employing enzymes (natural biological catalysts) to break down the flesh, and other parts of the fish, into simpler protein complexes. This process is called Hydrolysis and the result is an exceptional fish hydrolysate fertilizer.



JRM Chemical, Inc. JRM Chemical, Inc.

This Cleveland-based company focuses on biological biostimulants, water-saving polymers, and mycorrhizal products that create optimal conditions for plant growth and high yields. Conveniently packaged in small sizes with easy application methods and clear, no-fuss instructions, these products will bring professional quality ingredients to the home grower.



RX Green Technologies

RX Green Technologies provides simple to use, research-backed and scrupulously made products to cannabis cultivators with a heavy emphasis on customer service. Their research and development facility is the only cannabis specific facility in the industry and they are always examining and fine-tuning their products to offer the very best to their customers.



John & Bob's Smart Soil Solutions

Rich, vibrant soil is the key to a fertile and self-sustaining garden ecosystem. John & Bob's creates soil products that build healthy, productive soils the way that nature does – with beneficial microorganisms, minerals and microbes. Create soil that is bursting with life with the four product system of Optimize, Maximize, Nourish-Bio-sol and Penetrate.



SaferGro

SaferGro products are brought to us by SaferGro Labs, a facility focused on the research and development of organic and safe products for commercial and home garden use. By using SaferGro products, all growers can take advantage of this research. These products provide a safe way to enter into the world of earth-friendly growing.



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. **\$19.49**



Geoflora VEG & BLOOM Combo Pack



A Two-Part Solution To Maximize Your Plants' Production Potential

TARGET: Highly productive plants in need of comprehensive plant boosting nutrients.

DESCRIPTION: These organic fertilizers are packed with high quality ingredients, including beneficial bacteria, to take your plants smoothly through the growth stage and into the phase of bountiful blooms. Geoflora VEG helps establish strong microbial activity in your soil, which aids in nutrient availability and uptake for healthy, fertile plants. Geoflora BLOOM eases up on the nitrogen (N) while providing strong phosphorus (P) and potassium (K) levels. These macro and micro-nutrients are aided in their task by the beneficial bacteria. The granular form of these products makes for easy, dust-less application with no pre-mixing needed. Geoflora VEG & BLOOM can each be used individually, or as a stand-alone system. OMRI listed and CDFA registered.

SUGGESTED USE: Amending - Mix 8 oz. per cubic foot of growing medium prior to transplant. For small applications, use 1 oz. per 1 gallon prior to transplant and for soil amending purposes, apply 1 oz. per sq. ft. **Top Dress** - Apply 8 oz. per cubic foot of growing medium every 14 days. Water in thoroughly.

1305690 Geoflora VEG & BLOOM - 4 lbs. of Each **\$43.49**

1305691 Geoflora VEG & BLOOM - 8 lbs. of Each **\$79.99**

Both products are available individually and larger sizes are available individually and in the combo packs.

Cannot be shipped to the following states: AL, AK, DC, FL, GA, HI, ID, IA, KS, KY, LA, MS, MO, NE, NC, ND, SC, SD, TN, UT, VA, WI, WY



Nitrogreen™, 13-0-0



Commercial-Grade Quality In A Convenient Home-Use Size.

TARGET: Plants that need an extra dose of nitrogen.

DESCRIPTION: This plant-based organic fertilizer offers a powerful blast of nitrogen to get your green-up going. It provides just the boost of nitrogen your plant needs to best synthesize amino acids, chlorophyll, nucleic acids and enzymes as part of its natural functions. Made from non-GMO hydrolyzed plant protein, this water soluble product can be used all types of plants and vegetables. Dissolves quickly and completely into solution, but it can also be applied dry as a soil additive or top dress.

SUGGESTED USE: Outdoor Plants: Apply every 2 weeks and water in well. Mix 7 tsp/gal of water. For small shrubs, rose bushes & trees up to 4' tall - 1/2 gal. For larger bushes & trees - 1 gal. For flowers & vegetables - 1 gal/12-15 sq. ft. or 7 gals/100 sq. ft. **Indoor Plants:** 2 tsp/gal water every 2 weeks. **Dry Applications:** Premix or top dress between 3/4 tsp. & 3 gals depending on pot size (4" -3 gals). **Gardens/Flower Beds:** Broadcast 7 tsp/15 sq. ft. around plants. **Trees/Bushes:** For small shrubs, rose bushes & trees under 6' tall - 5 tsp. For larger bushes, use 7 tsp.

1300510 Nitrogreen - 14 oz. **\$13.10**



Plant Thrive



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

TARGET: For use in soil, soil-less media, hydroponics, deep root injections, greenhouses and on turf.

DESCRIPTION: This microbial-based, granular product was designed to improve soil conditions for vigorous root growth, strong plant establishment, enhanced disease suppression, and increased resistance to plant and environment stress. Each ingredient has unique and valuable characteristics (to fight pathogens, stimulate plant growth, etc.), but when put together they form a synergistic powerhouse of benefits for all types of plants. Can be used as a soil amendment, foliar spray, drench for new and existing plants, and hydroponics.

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

1202220 Plant Thrive - 3 oz. **\$10.85**





John & Bob's Maximize Microbes & Minerals

A Highly Concentrated Combination Of Essential Minerals & Microbes That Add Life & Vitality To Your Soil!

TARGET: Use as part of a complete soil improvement program along with John & Bob's Optimize, Penetrate and Nourish.

DESCRIPTION: Maximize adds vital minerals and microbes that transform lifeless soil into a living community. Unlocks stored nutrients in the soil, making them available to plants.

SUGGESTED USE: Use 8 lbs. per 1,000 square feet of soil. Cast or spread onto soil or lawn and water in. Apply twice per year.

- 1332711** John & Bob's Maximize - 8 lbs. (treats ≈1,000 sq. ft.) **\$24.95**
- 1332712** John & Bob's Maximize - 32 lbs. (treats ≈4,000 sq. ft.) **\$74.95**



John & Bob's Grow Green Optimize Soil Optimizer

Feed Your Plants & Add Beneficial Microbes To The Soil!

TARGET: Part of a complete soil improvement program when used along with John & Bob's Maximize, Penetrate and Nourish.

DESCRIPTION: Optimize consists of decomposed humus derived from leonardite, which is found in the top layers of the earth's surface. In addition, Optimize contains calcium and iron, which work with humus to balance the soil and feed the beneficial microorganisms that are necessary for plant texture and health.

SUGGESTED USE: Broadcast at the rate of 3 lbs. per 1,000 square feet of soil or lawn and water in. For vegetable transplants or up to 5 gallon transplants, use 2 tbsp.

- 1332707** Optimize Soil Optimizer - 3 lbs. (treats ≈1,000 sq. ft.) **\$19.95**
- 1332708** Optimize Soil Optimizer - 6 lbs. (treats ≈2,000 sq. ft.) **\$29.95**
- 1332709** Optimize Soil Optimizer - 12 lbs. (treats ≈4,000 sq. ft.) **\$54.95**
- 1332710** Optimize Soil Optimizer - 42 lbs. (treats ≈14,000 sq. ft.) **\$85.00**



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

The Best Of Both Products For A Complete Fertilization Program.

TARGET: All types of plants and crops.

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

- 1315012** 1 Pint **\$13.49**
- 1315011** 1 Quart **\$18.99**
- 1315013** 1 Gallon **\$45.99**
- 1315014** 5 Gallons **\$169.99**

Larger sizes available.

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



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 **\$16.99**
- 1315002** 1 Gallon **\$38.99**
- 1315003** 5 Gallons **\$149.99**

Larger sizes available.

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



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 **\$12.99**
- 1315007** 1 Quart **\$16.99**
- 1315009** 1 Gallon **\$38.99**
- 1315010** 5 Gallons **\$149.99**

Larger sizes available.

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



Do you know what fertilizer your plants need?

Selecting the right fertilizer for your plants is very important for optimum health and growth. Here are some tips to help you make your selection:

1. Understand N-P-K and why it is important

N = Nitrogen: Important for plant tissue growth.

P = Phosphorus: Transfers energy to different parts of plants.

K = Potassium: Helps carbohydrate production and regulates metabolism.

2. Identify common symptoms of nutrient deficiencies

Nitrogen Deficiency: Yellowing of leaves and light green coloration of plant parts.

Phosphorus Deficiency: Burnt leaf tips, leaves look dark green /reddish-purple.

Potassium Deficiency: Burnt leaf tips, wilting and yellowing in between veins.



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
1317202	Maxicrop Soluble Seaweed Powder - 44 lbs.	\$399.00

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, lawns and crops.

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

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

Maxicrop Liquid Seaweed Plus Iron 0-0-1 +2% Iron

For Trees, Flowers, Lawns, Fruits & Vegetables!

TARGET: Stressed plants and seed starting.

DESCRIPTION: Maxicrop is excellent for soaking seeds to improve germination. It also can be used as a soak for bulbs to increase their vigor. Apply it to seedlings, and watch them grow into healthy, vigorous plants. Maxicrop will strengthen cuttings, bare root trees and shrubs before and after transplant.

SUGGESTED USE: General application rate is 1 capful/gal. of water. For lawns, cuttings and rootings use 2 capfuls/gal. of water.



1313035	Maxicrop Liquid Seaweed Plus Iron - 2 oz.	\$14.30
1313036	Maxicrop Liquid Seaweed Plus Iron - 1 Gallon	\$28.80
1313037	Maxicrop Liquid Seaweed Plus Iron - 2.5 Gallons	\$55.50

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

Larger sizes available - please go online or call.



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!

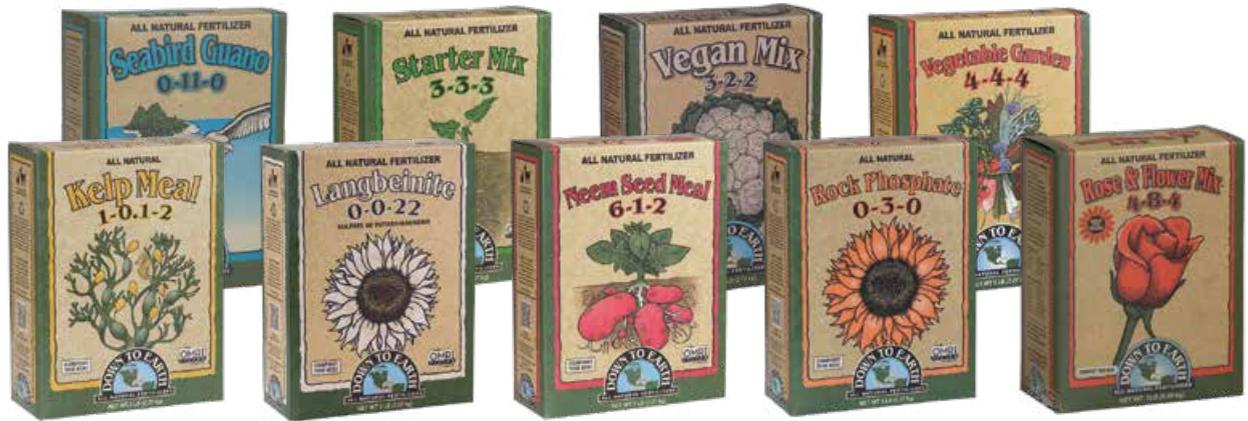
1300225	Down To Earth Crab Meal - 5 lbs.	\$15.79
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DTE Fish Bone Meal, 4-12-0

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 Langbeinite, 0-0-22



Potassium, Magnesium & Sulfur In One Mineral Application.

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

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 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 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**

Larger sizes available - please go online or call.

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**

Larger sizes available - please go online or call.

See online for shipping restrictions.

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 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**

Larger sizes available - please go online or call.

DTE Vegetable Garden, 4-4-4



Give Your Vegetable Garden A Powerful Nutrient Boost!

1300299 Down To Earth Vegetable Garden - 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 WP & RootShield® Plus Granules



Use This Biological Fungicide To Eliminate Hard To Control Diseases!

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

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

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

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

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

Large sizes available.

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



Regalia® CG & Regalia®



OMRI Listed Control For Both Bacterial & Fungal Diseases.

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

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



Cueva® Fungicide Concentrate



Kills Fungal & Bacterial Plant Diseases With Good Ole' Copper Soap.

TARGET: *Alternaria*, anthracnose, spots, bacterial blast, bacterial cankers, specks, rots, black pod, blotch, molds, *Bortrytis*, downy mildew, fireblight, fly speck, leaf smut, knots, powdery mildew, *Rhizoctonia*, rusts, scab & more.

DESCRIPTION: Organic Cueva combines a soluble copper fertilizer with a fatty acid to create a true soap in a patented flowable liquid formulation. This formula lets the product spread easily across plant surfaces and helps the copper get into fungal or bacterial cells and destroy them. As it moves across the plants and into the cells, it forms a protective layer that creates a hostile environment for pathogens.

SUGGESTED USE: On vegetables, field-grown herbs and crops, nuts, fruits, citrus and berries: Mix 0.5-2.0 gals/30-100 gals of water and apply to one acre. Begin treatment when disease first appears and reapply at 7-10 day intervals. This schedule may vary somewhat according to crop specific application needs. Use the higher rate following heavy rain or when the amount of disease is increasing rapidly. If possible, time applications so that 12 hours of dry weather follow application. Use the higher rate to control diseases that may go dormant and overwinter.

1332920	Cueva Fungicide Concentrate - 2.5 Gallons	\$143.50
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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



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



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.	\$37.99
1458222	Procidic Concentrate - 1 Gallon	\$234.99

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



BONIDE® Liquid Copper Fungicide

Use For The Control & Prevention Of Many Fungal Diseases!

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

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

SUGGESTED USE:

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

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

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



BONIDE® Sulfur Plant Fungicide

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

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

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

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

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

Cannot be shipped to the following states: AK, DC



Monterey Complete Disease Control



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

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

DESCRIPTION: This 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. When 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	\$14.99
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

Cannot be shipped to the following states: RTU (1458203): MO

8 oz. concentrate (1458200) and 1 pt. concentrate (1458201): MO, ND

1 gal. concentrate (1458202): NY



BONIDE® Sulfur Plant Fungicide

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

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

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

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

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

Cannot be shipped to the following states: AK, DC



ZeroTol® HC



Clean Up & Protect Your Plants With One Powerful Product.

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

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

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

1222410	ZeroTol HC - 1 Gallon	\$37.99
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PERpose Plus™



This OMRI Listed Algicide/Fungicide Works On Contact With No Odor!

TARGET: Algae, anthracnose, *Alternaria*, *Aphanomyces*, blights, downy mildew, *Fusarium*, *Erwinia*, *Phytophthora*, powdery mildew, *Plasmopara*, *Phythium*, *Pseudomonas*, rust, scab, *Sclerotinia*, smut, spots, *Rhizoctonia*, *Thielaviopsis*, and *Xanthomonas*.

DESCRIPTION: This hydrogen peroxide-based organic product works by oxidizing the outer cell membrane of vegetative endospore, fungus, algae, yeast and mold spore cells. The oxygen released in this process helps relieve anaerobic conditions. This proprietary formula also contains stabilizers and buffers that counteract phytotoxicity. This allows you to use this product freely over all plant material and into the root zone without fear of damaging delicate plants. PERpose Plus contains no peracetic acid and is odor free. You can apply this to any part of the plant, in chemigation/fertigation systems and on non-porous surfaces.

SUGGESTED USE: Do not apply in dry, extremely hot conditions. For curative purposes: Dilute 1:100 or 1 fl oz/gal water and apply for 3 consecutive days. Maintain at the preventative rate of 1/3-1/4 fl oz/gal water weekly.

1223000 PERpose Plus - 5 Gallons* **\$150.00**

Larger sizes available.

*PERpose Plus requires a freight shipping quote to ship all sizes. Cannot be shipped to residential addresses.

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



ZeroTol® 2.0



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

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: 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**

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

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



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 of SaniDate are final.

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

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

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



OxiDate® 2.0



Bactericide & Fungicide For Wide Use

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

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

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

1222501 OxiDate 2.0 - 2.5 Gallons **\$240.00**

1222502 OxiDate 2.0 - 5 Gallons **\$370.00**

Larger sizes available.

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

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



PRE-EMERGENT

Sustane® Spring Weed & Feed, 9-0-0



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

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

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

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

1226810 Sustane Spring Weed & Feed - 30 lb. Bag **\$35.00**



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: Greenhouses, agricultural crops, lawns, nursery stock, ornamentals, orchards, home gardens and more.

1273010 Gluten-8 OLP Liquid Corn Gluten, 1.5-0-0 - 1 Gallon **\$61.00**



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

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

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

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

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

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



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.

1273018 BONIDE Maize Weed Preventer RTS - 32 oz. **\$15.49**

Cannot be shipped to the following states: DC



WeedGuard Plus biodegradable weed barrier is available in standard and heavy weight rolls as well as pre-cut squares and sheets.

Visit www.arbico-organics.com for sizes and prices.

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).

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

Cannot be shipped to the following states: CA



BioSafe Weed & Grass Killer



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

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

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

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

1453820	BioSafe Weed & Grass Killer - 32 oz. RTU	\$7.99
1453821	BioSafe Weed & Grass Killer - 32 oz. Concentrate	\$21.99
1453822	Biosafe Weed & Grass Killer - 1 Gallon Concentrate	\$69.99



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

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	\$21.00
1453776	BONIDE Burnout - 1 Gallon Concentrate	\$48.00
1453777	BONIDE Burnout - 2.5 Gallons Concentrate	\$99.00



ADJUVANTS & ADDITIVES

Kinetic®

The Right Adjuvant Can Lead Directly To Higher Yields - And This Is The Right One.

DESCRIPTION: This organic nonionic wetter/spreader/penetrant adjuvant has been formulated to provide quick spreading and thorough absorption of pesticides, herbicides, and nutrients. Due to its particular characteristics, you can use lower rates of Kinetic than other surfactants while still maintaining high levels of efficacy. Kinetic is particularly effective when used with post-emergent, non-selective herbicide sprays, especially the water-based kind as it allows for fast spreading and absorption into the plant leaves and stems.

SUGGESTED USE: For use with products registered for agricultural, aquatic, forestry, industrial, non-cropland, ornamental, rights of way, turf, municipal and deep feeding trees with pesticides, fertilizers and micronutrients. Also recommended for use with non-selective herbicides and other pesticides including those used to desiccate or defoliate. Ground, CDA: Use 12-64 oz/100 gals of spray. Aerial: Use 32-64 oz/100 gals of spray. Aquatic: 8-32 oz/gal of spray. General wetter/spreader: Use 6-12 oz/100 gals of spray. Mix rates are highly variable depending on products and conditions. See label online for more information.

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| 1402430 | Kinetic - 1 Quart | \$36.49 |
| 1402431 | Kinetic - 1 Gallon | \$94.99 |

Cannot be shipped to the following states: ID, WA



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

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| 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.



Brandt® Organics SKH Sticker



Keep Your Sprays On Your Plants With This OMRI listed Sticking Agent.

DESCRIPTION: Brandt Organics SKH Sticker is a mineral-based premium sticker for foliar applications in high moisture conditions that contains an ingenious combination of Bentonite, Lactose and Casein. It will improve the effectiveness and increase the longevity of insecticides, insect growth regulators, nutritional sprays, fungicides and herbicides. Specially formulated to stand up to moisture, this product will resist rain and irrigation run-off and effectively adhere sprays to their target.

SUGGESTED USE: Product is compatible with most agricultural chemicals. However, if the desired combination has not been previously used, a compatibility test is recommended. For ground applications with (a) insecticides and insect growth regulators use 3/4 lb. per 100 gallons of spray solution, (b) fungicides and herbicides: use 1-2 lbs. per 100 gallons of spray solution. For aerial applications use 2-3 lbs./acre in a minimum of 10 gallons of spray solution. If higher rates are recommended by a pesticide label, follow those label directions.

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| 1440100 | Brandt Organics SKH Sticker - 5 lbs. | \$15.50 |
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Cannot be shipped to the following states: AR, HI, ID, KY, MS, TN, UT, WA, WV, WY



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.

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| 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

HOSE END 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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Chameleon Adaptable Hose End Sprayer

Get Perfect Application With This Highly Adjustable Sprayer.

1800006	Chameleon Adaptable Hose End Sprayer - 1 Sprayer	\$14.75
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Self-Mixing Hose End Sprayer

No Pre-Mixing Needed With This Powerful and Versatile Sprayer.

1800107	Self-Mixing Hose End Sprayer	\$23.99
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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® 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® Dual Action Mole & Gopher Repellent

Dual Action, Poison-Free Formula Deters Digging Pests By Taste & Smell.

TARGET: Moles, voles, gophers, armadillos and other burrowing animals.

DESCRIPTION: This repellent uses castor oil combined with Fuller's Earth to create a distinctly unpleasant underground environment for burrowing pests. The odor and taste of this combination penetrates into existing tunnels and discourages new tunneling, which compels the animals to relocate.

Although repulsive to diggers, this product is not harmful to people or pets.

SUGGESTED USE: Move the pests off the property gradually by directing the application of granules in stages. Start in an area where the lawn is still good or nearest structures and gradually work in concentric lines toward the border of the property. Place the granules at 5 foot intervals, apply daily for at least 4 days in the concentric lines until you reach the edge of the property. Water the granules after each application.



1287510	Victor Mole & Gopher Repellent - 4 lbs.	\$18.99
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Cannot be shipped to the following states: ME, MT, NM



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, MO, ND, NJ, VA, WA, WY

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, odorless 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, DE, DC, ID, IL, IN, IA, KS, KY, ME, MD, MA, MI, MN, MO, MT, NE, NV, NH, NJ, NY, ND, OH, OR, PA, PR, RI, SD, UT, VT, VA, WA, WY, WI, 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**

Harris Famous Roach Tablets



These Super Easy To Use Tablets Are Effective For A Long Time!

TARGET: Roaches, waterbugs, silverfish and ants.

DESCRIPTION: These tablets use Boric Acid, sugar, flour and a proprietary lure to create a food that insects crave. If kept dry, tablets can remain effective for several years. But, for best results, it's recommended that you replace tablets yearly. Contact with insect spray will negatively affect the performance of the tablets. One box can treat an entire house. Can be used in domestic and non-domestic settings (i.e., new construction).

SUGGESTED USE: Before placing tablets, clean up any leaks, cover any garbage or food and block any areas where roaches may be gaining entrance or hiding. Use no more than 12 per room. Place in cracks and crevices, under and behind appliances, in cabinets and in and underneath drawers. Any tablet visible after application must be pressed into cracks and crevices or removed.



1219550 Harris Famous Roach Tablets - 6 oz. **\$6.25**

Harris Borax Liquid Ant Killer



A Few Well-Placed Drops Of This Bait & Ants Will Fade Away.

TARGET: Common household "sweet-eating" ants. Not effective on pharaoh ants, carpenter ants, fire and harvester ants.

DESCRIPTION: In order to eliminate an ant problem, you need to get into the colony and right to the queen. This sweet bait will do just that. It works slowly enough that the foraging worker ants are unaware of its danger and will take it home and share it with their queen and the other ants. Before long, the queen will be dead and the colony eliminated.

SUGGESTED USE: Before placing out bait trays, remove all food sources so that the primary food source for the ants will be the bait. Place where ants have been seen and place several out at a time. Remove bottle from packaging, unscrew cap and remove foil seal. Pour a few drops of liquid ant killer inside the bait tray. Place in areas accessible to insects but inaccessible to children and pets. Inspect bait trays periodically and re-apply liquid ant killer as needed.



1257410 Liquid Ant Killer - 9 Bait Trays w/3 oz. Liquid Bait **\$7.99**



America's Oldest EPA Registered Brand

Catchmaster® Crawling Pest & Insect Traps



A Really Easy Way To Rid Yourself Of Sneaky Crawling Insects.

TARGET: Grasshoppers, crickets, spiders, cockroaches and small scorpions.

DESCRIPTION: If insects crawling around your house gives you the creeps, these non-toxic traps should give you a little peace of mind. These are basic sticky traps with two valuable improvements: The glue boards contain a beguiling scent that insects are drawn to and these traps can be folded into little boxes to protect them from dust and debris, and so that you do not have to see the insects trapped in the glue. Can be used flat or folded. When folded, it will not trap mice or larger pests as the opening is too small. Long-lasting, professional strength glue.

SUGGESTED USE: (1) Peel off release paper. (2) Lay traps flat along walls in basements, corridors, damp areas, under furniture and wherever insects are observed. (3) Optional – To form box: Fold the trap at perforations and insert tab into slit, forming box.



1260205 Crawling Pest & Insect Traps - 4 pack **\$3.02**

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

Catchmaster® Pantry Pest & Moth Traps & Attractant



Keep Moths From Making Your Foodstuffs Their Dinner.

TARGET: Common flour and grain, Indian meal, Mediterranean flour, raisin, and tobacco moths.

DESCRIPTION: This tried-and-true combination of a sticky trap and attractant targets the most common pantry pests found where cereal, pasta, grain and grain-based food, dried fruit, chocolate, pet food, bird seed, nuts and spices are kept. The professional strength, non-toxic attractant included with this trap is odorless to humans, but irresistible to moths. As soon as they enter the trap, they will be firmly caught by the glue inside. This 2" w x 5.25" d x 3.5" h trap can lure moths from up to 12 feet away.

SUGGESTED USE: Place trap where moths are noticed, especially in the kitchen and other rooms where human and animal food is stored. (1) Peel off release paper from trap. (2) Remove one lure from the protective package. (3) Insert lure where indicated on the glue trap. (4) Fold along perforations and insert the tab in the slot to form a tent. Check trap daily. If no moths are caught on the 1st day, move to a new location. Discard when full. If moths are still present, replace with a new trap and lure.

- | | | |
|----------------|--|---------------|
| 1280310 | Pantry Pest & Moth Traps & Attractant - 2 pack | \$5.89 |
| 1280311 | Pantry Pest & Moth Traps & Attractant - 4 pack | \$8.98 |



Harris Plug-In Flea & Insect Trap with Night Light Attractant



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

TARGET: Fleas and other flying and crawling insects that are attracted to light.

DESCRIPTION: This trap works under the simple principle that fleas, and many other insects, are drawn to light and warmth. Simply plug it into a wall outlet and they will make their way towards it. When the insects reach the trap, they will be securely trapped by the glue board. There is a light sensor in this trap that turns the bulb on automatically when the room is dark enough (and back off when the room lightens), so you don't have to remember to turn it on or off.

SUGGESTED USE: Fold the tabs away from you along the dotted lines. The tabs should now be at a 90° angle to the card. Flip the card over (to the unprinted side) and peel away the protective backing. Holding the card carefully by its edges, insert the folded tabs into the slots near the top of the trap. Press card in to make contact with the trap. Rotate the plug so it faces outwards. Plug the trap into the bottom input of a wall outlet. For best results, use in a fully dark room and used one trap in each room where insects are an issue.

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



REVENGE® Pantry Moth Trap

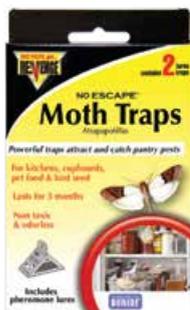
This Pantry Moth Trap Uses Pheromone Lures To Attract The Moths & Trap Them!

TARGET: Adult moths (Indian meal moths, almond moths and raisin moths).

DESCRIPTION: This trap attracts and captures adult flour moths. These moths are found in flour, rice, crackers, dog food, bird seed and cereal. Trap works by luring male moths into trap with a pheromone (insect hormone) that female moths use to attract males for mating. Reducing the number of male moths reduces egg laying and mating. It is a good idea to keep a few of these traps on hand. Traps work without harmful chemicals!

SUGGESTED USE: Use one or two traps for an average sized room or closet and they will last 3 months.

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| 1280302 | Revenge Pantry Moth Trap - 2 Pack | \$6.29 |
| 1280303 | Revenge Pantry Moth Trap - 2 Per Pack/Pack of 3 | \$18.30 |
| 1280304 | Revenge Pantry Moth Trap - 2 Per Pack/Pack of 6 | \$35.40 |
| 1280305 | Revenge Pantry Moth Trap - 2 Per Pack/Pack of 12 | \$66.00 |



Aunt Fannie's FlyPunch!

Pesky Fruit Flies Can't Wait To Dive Into These Jars!

TARGET: For use against Fruit Flies (*Drosophila*).

DESCRIPTION: Fruit flies are not just nuisance pests; they can transmit many pathogens, including *Escherichia coli* (*E.coli*) bacteria. This unique formulation acts to attract, disable and kill fruit flies. The attractant will draw them into the dispenser and, once they touch the substance inside, it works to break down their exoskeleton. The disabled insect will be drawn down into the liquid and drown.

SUGGESTED USE: No mixing or assembly required, simply open the DiveJar flip top and place near common fruit flies areas. One DiveJar covers an area about 500 cu. ft. FlyPunch! Is most potent for the first 2 weeks, but may last up to 30 days. Dispose of DiveJar when full.

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| 1280650 | Aunt Fannie's FlyPunch! - 6 oz. | \$9.49 |
| 1280655 | Aunt Fannie's FlyPunch! - 6 oz./6 Pack | \$47.94 |



Harris Spider Traps



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

TARGET: Common spiders, scorpions and other small crawling insects.

DESCRIPTION: Spiders enter buildings looking for a safe and warm spot with access to food. Since insects are drawn to light and insects are on a spider's menu, spiders will also follow a light trail. Place these sticky traps in areas that insects will be drawn to or tend to hide, like attics and basements, along walls and baseboards, and under furniture. Designed to lie close to the ground for discreet placement under furniture, appliances and even bedding. Pesticide free. For residential or commercial use.

SUGGESTED USE: (1) Peel off protective paper. (2) Fold the trap and insert the tab at top to hold it together. (3) Fold end flaps inward to form a 30 degree angle. (4) For best results, place trap lengthwise against wall. Check the trap regularly and dispose of it when it is covered with insects, or every 90 days.

1280210 Harris Spider Traps - 2 pack **\$6.79**



Harris Cricket Traps



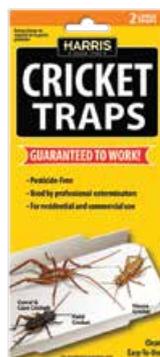
Chirping Driving You Mad? Get These Traps.

TARGET: House crickets, camel crickets, cave crickets, field crickets, spiders and roaches.

DESCRIPTION: Your best bet to avoid such cricket infestation is to monitor them from the sound of that first chirp. Crickets enter buildings looking for a warm, moist place to set up house. For this reason, place traps in areas with high humidity, along baseboards, near entryways and windows and under appliances and furniture. These traps are designed to lie close to the ground so they can slide easily under things. For residential and commercial use.

SUGGESTED USE: (1) Peel off protective paper. (2) Fold the trap and insert the tab at top to hold it together. (3) Fold end flaps inward to form a 30 degree angle. (4) For best results, place lengthwise against wall. Check the trap regularly and dispose of it when it is covered with insects, or every 90 days.

1452443 Harris Cricket Traps - 2 pack **\$6.49**



BED BUG CONTROL

Hygea Natural Bed Bug & Lice Exterminator

Use These Stain & Scent Free Products To Rid Yourself Of Bed Bugs & Keep Them Away!

TARGET: Bed bugs, dust mites, fleas, lice and ticks.

DESCRIPTION: Formulated with naturally occurring enzymes and no animal products or by-products, you can be comfortable using this residue-free product regularly. And because bedbugs can live up to a year between feedings, you will want to be proactive by spraying as often as every day for prevention. Use with the laundry treatment for a perfect 1-2 punch.



SUGGESTED USE: Spray a light mist on linens, pillows, mattresses, box springs, headboards, furniture, carpets and other surfaces where bed bugs may hide. Do not saturate, a light mist is sufficient.

1219600 Bed Bug & Lice Exterminator - 3 oz. **\$5.99**
1219602 Bed Bug & Lice Exterminator - 24 oz. **\$11.99**
1219605 Bed Bug & Lice Exterminator - 1 Gal. **\$39.99**

Harris Bed Bug Detection Traps



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

TARGET: Use for detecting the presence of bed bugs in homes and businesses.

DESCRIPTION: Infused with an irresistible lure, Harris Bed Bug Detection Traps will draw in the insects and hold them tight with a super-sticky glue. These traps are an excellent choice to use when you will be away from the area where bed bugs are a concern; upon you return you can see what you're dealing with. They are also ideal to use after you have taken the necessary steps to clean up an infestation and would like to determine if your efforts have been effective. These traps are designed to slide discreetly under furniture and bedding. Pesticide free and non-toxic. For commercial and residential use.

SUGGESTED USE: Pre-fold trap and remove release paper from glue. Fold the trap and insert the tab at top to hold it together. Fold end flaps inward to form a 30 degree angle. Place the trap near a bedpost or any other location where insects are likely to travel, hide, or congregate. Check the traps regularly. Dispose of the trap when it is covered with insects or after 90 days.



1240315 Harris Bed Bug Detection Traps - 4 pack **\$6.79**

SaniDate® Hard Surface Sanitizer



A Great Alternative to Chlorine Bleach, Phenol and 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	\$7.49
1222511	SaniDate Hard Surface Sanitizer - 1 Gal. RTU	\$27.95

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.



1222520	SaniDate All Purpose Disinfectant - 1 Gallon	\$30.00
1222522	SaniDate All Purpose Disinfectant - 1 Gallon/Case 2	\$40.00

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

**SaniDate® All Purpose Disinfectant
Approved By EPA As Effective Against
Human Coronavirus – Added To EPA List-N**

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
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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
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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.



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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 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

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