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

https://www.youtube.com/user/ ArbicoOrganics

https://arbico-organics.blogspot.com

PREDATORY INSECTS

Assassin Bug - Zelus renardii

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



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

DESCRIPTION: These hardworking ambush predators

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

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

Temperature: 55-110°F		Relative Humidity: 10-75%	
1000105	≈250 Eggs	\$25.00	
1000106	≈500 Eggs	\$40.00	
1000107	≈1,000 Eggs	\$65.00	

Larger sizes available.

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

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

Orius insidiosus

general predators in field crops. Their diet consists of a

variety of small pests. They are also known to attack adult thrips.

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

Temperature: 64-82°F	Relative Humidity: Moderate ≈60%	
1117001	≈500 Count	\$53.00
1117003	≈1,000 Count	\$88.00
1117004	≈2,000 Count	\$154.00

Overnight Shipping Required

Green Lacewing - Chrysoperla spp.

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

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

DESCRIPTION: Green lacewing are available in all three life stages: egg, larva and adult. Green lacewing larvae paralyze their prey with venom and then draw

out the body fluids of the pest into their large hollow jaws. Each lacewing larva will devour 200 or more pests or pest eggs a week during their two to three week developmental period.

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

GREEN LACEWING EGGS:*		
1110011	≈5,000 Eggs	\$27.00
1110016	≈10,000 Eggs	\$37.80
1110012	≈25,000 Eggs	\$63.00
1110013	≈50,000 Eggs	\$123.75
1110100	≈5,000 Eggs on Cards	\$30.00
1110102	≈10,000 Eggs on Cards	\$50.00
1110105	≈25,000 Eggs on Cards	\$100.00
GREEN LACEWING LARVAE:		
1110005	≈400 Larvae in Hex Frame	\$25.00
1110010	≈1,000 Larvae in Bottle	\$24.00
1110030	≈5,000 Larvae in 5 Liter Bag	\$98.00
1110032	≈10,000 Larvae in Bucket	\$175.00
GREEN LACEWING ADULTS:		
1110006	≈100 Adults	\$45.00
1110004	≈250 Adults	\$90.00
1110007	≈500 Adults	\$160.00
1110019	≈1,000 Adults	\$180.00

SUGGESTED USE (Depending upon level of infestation):

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

Weekly Programs and Discounts Available Larvae & Adults Require OVERNIGHT Shipping

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

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



APHID CONTROL

Aphid Predator - Aphidoletes aphidimyza

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

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



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

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

Temperature: Warr	n 64-77°F Relative Humidity: M	oderate ≈70%
1101001	≈1,000 Pupae	\$60.00
1101002	≈1,000 Pupae in 4 x 250 Blister Packs	\$65.00
1101004	≈2,000 Pupae	\$90.00
1101005	≈10,000 Pupae	\$250.00

Overnight Shipping Required

Aphid Parasite - Aphidius colemani

Exceptional In Greenhouses Producing Vegetables & Ornamentals.



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

DESCRIPTION: These tiny (1/8") parasitic wasps specifically target aphids to provide food and a place to oviposit. The adults respond to alarm signals from

plants to locate the aphids and, once there, they feast on the honeydew produced by the aphids. The females will then lay their eggs inside aphid nymphs. The larvae will hatch and devour the aphid from inside, turning it into a mummy. The parasites are shipped to you in this stage; simply place them where the infestation is. Once mature, the adult wasp will chew its way out of the mummy and begin hunting aphids.

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

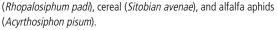
Temperature: 7	'0-77°F Relative Humidity: High	ı ≈80%
1101302	≈500 Mummies	\$43.00
1101301	≈1,000 Mummies	\$54.00
1101300	≈1,000 Mummies in 10 x 100 Blister Packs	\$56.00
1101300	≈ 1,000 Mummiles in 10 x 100 Bister Packs	\$36.00
1101303	≈5,000 Mummies	\$189.00
1101305	≈5,000 Mummies in 50 x 100 Blister Packs	\$195.00
1101304	≈10,000 Mummies (2 x 5,000)	\$340.00

Overnight Shipping Required

Aphid Parasite - Aphelinus abdominalis

These Ravenous Predators Will Eat & Parasitize Aphid Nymphs!

TARGET: Aphids, including potato (Macriosiphum euphorbiae), foxglove (Aulacorthum solani), green peach (Myzus persicae), California laurel (Euthoracaphis umbellulariae), cotton (Aphis gossypii), melon (Aphis gossypii), bird cherry-oat



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 $\approx 250/5.000$ sq. ft. or $\approx 1.000-4.000/acre.$

Temperature: 70-77°F	Relative Humidity: Low-H	igh ≈60-80%
1101101	≈250 Mummies	\$83.00
1101103	≈1,000 Mummies	\$235.00
0	comight Chinning Dequired	

Overnight Shipping Required

Aphid Parasite - Aphidius ervi

This Non-Stinging Parasitic Wasp Attacks Larger Aphid Species.

Image Citation: Alex Wild

TARGET: Aphids, especially potato (Macrosiphum euphorbiae), glasshouse potato (Aulacorthum solani). green peach (Myzus persicae), foxglove (Aulacorthum solani) and pea aphids (Acyrthosiphon pisum). Also



attacks greenbug/wheat (Shizaphis gramimnum), 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 $\approx 1-3/10$ sq. ft. or 1-8/sq. yd.

Temperature: 64	I-75°F Relative Humidity: Moderate	≈70%
1001001	≈250 Mummies	\$65.00
1001002	≈500 Mummies	\$100.00
1001003	≈1,000 Mummies	\$150.00
1001004	≈1,000 Mummies in 10 x 100 Blister Packs	\$155.00
1001005	≈5,000 Mummies	\$550.00

Overnight Shipping Required



WHITEFLY CONTROL

Integrated Pest Management of Whiteflies

- 1. Carefully inspect new plants before transplanting.
- 2. Dip foliage and root ball in soapy water, or hydrogen peroxide solution, to clean and kill any existing whitefly eggs, nymphs or adults.
- 3. Monitor pest thresholds with yellow sticky traps or ribbons.
- 4. Release Green Lacewing preventatively before infestation becomes severe.
- 5. Consider specialist parasites and predators for targeted whitefly infestations.
- 6. For quick knockdown control, consider sprays with a low environmental impact such as *Beauveria bassiana* products or Neem based sprays (see page 20).
- Clean tools and equipment as well as greenhouse structures between growing seasons. See Cleaning & Sanitizing on page 39.

Whitefly Parasite -Encarsia formosa

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

TARGET: Greenhouse whiteflies (Trialeurodes

and approximately 15 other species of whitefly.

vaporarium), sweet potato whiteflies (Bemisia tabaci)

Encarsia formosa

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 Parasite - Eretmocerus eremicus

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

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



DESCRIPTION: The whitefly parasite (parasitoid) is a tiny wasp that 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 Relat

2°FRelative Humidity: Minimum 40%

1000703

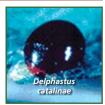
≈5,000 in 20 x 250 Blister Packs Overnight Shipping Required

\$94.95

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 \approx 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 18).
- 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.

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

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

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

Overnight Shipping Required

Fungus Gnat Predator - Stratiolaelaps scimitus (=Hypoaspis miles)

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

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

DESCRIPTION: This tiny brown mite naturally inhabits

the top layer of soil where larvae and pupae dwell. Female predatory mites lay their eggs in soil and the nymphs and adults feed on pests.

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

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

1154000	≈12,500 Count	\$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 Chinging Dequired	

Overnight Shipping Required

Control Fungus Gnat Larvae Using *Bacillus thuringiensis israelensis*

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

It can be used in conjunction with Beneficial Nematodes and Fungus Gnat predators as part of an IPM plan. For additional fungus gnat control solutions, see page 18.



Amblyseius,

NemAttack[™] Sf Beneficial Nematodes

Sf Beneficial Nematodes interrupt thrips reproduction and reduce local populations leading to fewer adults and less resulting damage. Use in conjunction with predatory insects as part of an integrated pest management program. Apply with a



watering can, hose end sprayer (See online) or backpack sprayer. See pages 12-13 for more information.

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.



Relative Humidity: 70%

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

BULK SIZES:

1101312 1101319 1101311 1101309	≈25,000 in Tube ≈50,000 in Tube ≈125,000 in 5 Liter Bag ≈200,000 Bulk	\$68.00 \$120.00 \$240.00 \$340.00
CONTROLLED F	RELEASE:	
1101317	≈50,000 in 200 Mini Sachets w/Hooks	\$140.00
1101308	≈62,500 in 250 Mini Sachets w/Hooks	\$170.00
1101318	≈62,500 in 500 Mini Sachets on Sticks	\$245.00
1101306	≈125,000 in 500 Mini Sachets w/Hooks	\$250.00
1101316	≈125,000 in 1,000 Mini Sachets w/Hooks	\$365.00
1101314	≈125,250 in 6 x 328 ft. Strips of Sachets	\$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	\$44.00
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	\approx 500,000 in Bran/Vermiculite Mix	\$200.00
CONTROLLED	RELEASE:	
1152225	≈125,000 in 500 Mini Sachets on Sticks	\$105.00
1152201	≈200,000 in 200 Sachets w/Hooks	\$90.00
1152221	≈200,000 in 400 Mini Sachets w/Hooks	\$80.00

1152201	≈200,000 in 200 Sachets w/Hooks	\$90.00
1152221	≈200,000 in 400 Mini Sachets w/Hooks	\$80.00
1152222	≈250,000 in 1,000 Sachets w/Hooks	\$135.00
1152226	≈250,000 in 1,000 Mini Sachets on Sticks	\$150.00
1152228	≈500,000 in 500 Sachets w/Hooks	\$185.00
1152227	\approx 500,000 in 2,000 Mini Sachets on Sticks	\$280.00
1152220	≈1,602,000 in 6 x 525 ft. Strips of Sachets	\$600.00

Overnight Shipping Required

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

The 1st and 2nd instar of the thrips lifecycle live above ground before moving to the roots as larvae to pupate. When using Beneficial Nematodes to kill thrips larvae, consider spraying them onto the foliage for additional control. Be sure to cover the underside of leaves. See pages 12-13 for more information on Beneficial Nematodes.

MITE CONTROL

Mite Predator - Amblyseius andersoni

Great For Pre-Emergent Control Of Pest Mite Infestations!

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



DESCRIPTION: This predatory mite is less than 1mm long and light brown. Adult females lay about 35 eggs

in a lifetime, arranging eggs onto leaf hairs. This predatory mite feeds on all stages of pest mites, thrips, pollen and honeydew.

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

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

BULK SIZES: 1101324 ≈25,000 in Tube \$140.00 1101327 ≈50,000 in 1 Liter Bottle \$165.00 1101321 ≈125,000 in 5 Liter Bag \$375.00 CONTROLLED RELEASE: 1101323 ≈25,000 in 200 Mini Sachets w/Hooks \$160.00 1101350 ≈25,000 in 200 Mini Sachets on Sticks \$175.00 1101325 ≈62,500 in 250 Sachets w/Hooks \$225.00 ≈125,000 in 1,000 Mini Sachets on Sticks 1101355 \$700.00 1101322 ≈125,250 in 6 x 328 ft. Strips of Sachets \$670.00

Overnight Shipping Required

Spider Mite Destroyer - Feltiella acarisuga

We Recommend This Predator When Spider Mite Infestations Are Widespread.

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



DESCRIPTION: The larvae of this tiny gall-midge feeds on two-spotted spider mites and various other species of spider mites. Recommended to be used with

P. persimilis when spider mite infestations are severe to rapidly knock back the pest mites. Feltiella works best on plants that have hairy stems. Adults do not prey on spider mites, but search for colonies and deposit eggs next to them. Eggs hatch in 2 days and larvae feed on all stages of spider mites for 4-6 days. The entire life cycle is about 15 days.

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

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

1155701

≈250 Count Overnight Shipping Required

Mite Predator - Neoseiulus (=Amblyseius) californicus

Good For Areas Where Temperatures Fluctuate Greatly Such As Deserts.

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

DESCRIPTION: This tiny, ivory, pear-shaped predatory mite feeds on a variety of pests on crops including: cucumbers, tomatoes, strawberries, tropical foliage



plants, and greenhouse roses. Although adults consume prey at a relatively slow rate of about one egg per day, they can survive longer under starvation conditions. During their lifetime of about 20 days, females will lay approx. 1-3 eggs per day. Eggs hatch within a few days and adulthood is reached in about 4-12 days.

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

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

BULK SIZES: 1151214 ≈1.000 in Blister Pack \$20.00 1151213 ≈2,000 Count \$43.00 ≈5,000 Count 1151209 \$65.50 1151210 ≈10,000 Count (2 x 5,000) \$106.00 1151212 ≈25.000 Count \$128.00 1151285 ≈100.000 Count (4 x 25.000) \$350.00 **CONTROLLED RELEASE:** 1151216 ≈10,000 - 100 Sachets w/Hooks \$75.00 1151271 ≈25,000 - 100 Sachets w/Hooks \$162.00 1151215 ≈25,000 - 200 Sachets w/Hooks \$170.00 1151275 ≈25.000 - 200 Sachets w/Sticks \$190.00 1151217 ≈50,000 - 500 Sachets w/Hooks \$250.00 1151273 ≈125,000 - 500 Sachets w/Hooks \$312.50 1151278 ≈125,000 - 6 x 328 ft. Sachet Strips \$650.00 1151279 ≈250,000 - 500 Sachets w/Hooks \$350.00 **Overnight Shipping Required**



\$144.00

MITE CONTROL

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 sup-

presses 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 \approx 20-60 eggs during a 14-60 day life-cycle. The transition from egg to adult stage takes about 7-9 days.

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

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

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

Overnight Shipping Required

Spider Mite Destroyer - *Stethorus punctillum*

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

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



DESCRIPTION: Using smell, this tiny ladybug is an effective locator and as an adult will consume more

than 40 mites per day. Females lay up to 15 eggs per day. Development to the adult stage takes around 18 days at a temperature of 70° F and the total lifespan of the predator is about 9 weeks. They are known to survive temperatures over 100° F in field crops.

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

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

1113301	≈100 Count	\$98.00
	Subject to seasonal availability.	
	Overnight Shipping Required	

Mite Predator - Phytoseiulus persimilis

The Mite Predator With The Highest Consumption & Dispersal Rate.

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

TARGET: Two spotted spider mites and various other mites.

DESCRIPTION: These predatory mites have high

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

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

P. persimilis PLUS Sachets

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

SUGGESTED USE (Depending upon level of infestation):

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

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

P. PERSIMILIS PLUS BULK SIZES:

1151250	PLUS ≈2000 Bottle	\$23.00
1151251	PLUS ≈4000 Bottle	\$40.00
1151252	PLUS ≈10,000 Bottle	\$85.00
1151253	PLUS ≈20,000 Bottle	\$120.00
P. PERSIMILIS	PLUS CONTROLLED RELEASE:	
1151235	PLUS ≈5,000 in 50 sachets w/hooks	\$50.00
1151236	PLUS ≈10,000 in 100 sachets w/hooks	\$95.00
1151230	PLUS ≈25,000 in 250 sachets w/hooks	\$225.00
1151231	PLUS ≈50,000 in 500 sachets w/hooks	\$387.50
P. PERSIMILIS	PLUS RAPID RELEASE:	
1151245	PLUS RAPID ≈5,000 in 50 sachets w/hooks	\$50.00
1151246	PLUS RAPID ≈10,000 in 100 sachets w/hooks	\$95.00
1151240	PLUS RAPID ≈25,000 in 250 sachets w/hooks	\$225.00
1151241	PLUS RAPID ≈50,000 in 500 sachets w/hooks	\$387.50
	Overnight Shipping Required	





MEALYBUG/SCALE CONTROL

Mealybug Destroyer - Cryptolaemus montrouzieri

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

Image Citation: Nijel Cruz

flies, Cryptolaemus montrouzieri

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

DESCRIPTION: Cryptolaemus is a small dark brown

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

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

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

1114702	≈100 Adults	\$77.00
1114703	≈250 Adults	\$98.00
1114704	≈500 Adults	\$190.00
1114705	≈1,000 Adults (2 x 500)	\$370.00
1114710	≈5,000 Adults (10 x 500)	\$1,000.00

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

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 predates 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

Integrated Pest Management (IPM)

Integrated Pest Management (IPM) is a process that is used to control pest populations while minimizing the impacts on people and the surrounding environment.

Focusing mainly on long-term pest prevention, a successful IPM program utilizes a combination of control methods including biological control, habitat manipulation, changes to cultural practices and use of resistant plant varieties.



Read more & find additional IPM resources at arbico-organics.com



MOTH EGG/CATERPILLAR CONTROL

Moth Egg Parasites -Trichogramma spp.

Prevent Worm Pest Damage On Crops!

TARGET: The egg stages of more than 200 pests including: codling moths, borers, loopers, webworms, cutworms, bollworms, tomato hornworms and corn earworms.



DESCRIPTION: Trichogramma spp. lay their eggs in

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

SUGGESTED USE (Depending upon level of infestation): Use ≈ 1 tab/3,000 sq. ft.; 50,000-200,000/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: N	∕linimum 50°F	Relative Humidit	v: Moderate

Trichogramma brassicae

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

CARDS:		
1131910	≈10,000 (3 Tabs)	\$15.00
1131903	≈20,000 (6 Tabs)	\$20.00
1131911	≈100,000 - 1 Card (30 Tabs)	\$34.00
BULK EGGS:		
1131950	≈100,000	\$32.00
1131955	≈1,000,000	\$225.00
CONTROLLED RELEASE - DIS	SPENSERS:	
1131961	≈12,500 - 5 Dispensers	\$25.00
1131962	≈25,000 - 10 Dispensers	\$37.50
1131963	≈62,500 - 25 Dispensers	\$43.75
1131965	≈125,000 - 50 Dispensers	\$62.50
CONTROLLED RELEASE - CA	PSULES:	
1131971	≈67,500 - 25 Capsules	\$47.25
1131972	≈135,000 - 50 Capsules	\$67.50
1131975	≈270,000 - 100 Capsules	\$108.00
Trichogramma minutum		
East of the Rockies; budworm	s, leafrollers and codling moths.	
CARDS:		

1129001 1129003 1129010	≈10,000 (3 Tabs) ≈20,000 (6 Tabs) ≈100,000 - 1 Card (30 Tabs)	\$15.00 \$20.00 \$34.00
BULK EGGS:		
1129050	≈100,000	\$32.00
1129051	≈200,000 (2 x 100k)	\$60.00
1129052	≈500,000 (5 x 100k)	\$150.00
1129055	≈1,000,000	\$225.00

Trichogramma ostriniae

Primarily for European C	.orn Borer.	
CARDS:		
1130100	≈8,000	\$22.00
BULK EGGS:		
1130155	≈1,000,000	\$225.0
Trichogramma platı		
West of the Rockies, orc	hards and tall crops.	
CARDS:		
1130001	≈10,000 (3 Tabs)	\$15.00
1130003	≈20,000 (6 Tabs)	\$20.00
1130030	≈100,000 - 1 Card (30 Tabs)	\$34.00
BULK EGGS:		
1130050	≈100,000	\$32.00
1130051	≈200,000 (2 x 100k)	\$60.00
1130052	≈500,000 (5 x 100k)	\$150.0
1130055	≈1,000,000 (10 x 100k)	\$225.0
Trichogramma preti	osum	
General predator.		
CONTROLLED RELEASI	- DISPENSERS:	
1131060	≈12,500 - 5 Dispensers	\$25.00
1131061	≈25,000 - 10 Dispensers	\$37.50
1131062	≈62,500 - 25 Dispensers	\$43.75
1131065	≈125,000 - 50 Dispensers	\$62.50
CONTROLLED RELEASI	- CAPSULES:	
1131070	≈67,500 - 30 Capsules	\$37.50
1131071	≈135,000 - 60 Capsules	\$60.00
1131075	≈270,000 - 90 Capsules	\$67.50
Mix 1 - <i>brassicae, m</i>	inutum, planteri	
For multiple pests and c	rops.	
CARDS:		
1130201	≈10,000 (3 Tabs)	\$20.00
1130202	≈20,000 (6 Tabs)	\$25.00
1130210	≈100,000 - 1 Card (30 Tabs)	\$36.00
Mix 2 - <i>brassicae, m</i>	inutum, ostriniae	
For multiple pests and c	rops including European Corn Borer.	
CARDS:		
1131300	≈4,000 on Card	\$22.00

For Caterpillar Control, See Page 16.

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.

How Do I Choose the Right Beneficial Nematodes?

Use the Nematode Selection Chart below 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, backpack sprayer, pump sprayer or watering can. Lightly water again after application. (See sprayer options online at www.arbico-organics.com)

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 conjuction 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.



Applying Beneficial Nematodes in the fall reduces overwintering pests, decreasing their populations and damage in the spring.

NEMATODE SELECTION CHART – Choose Variety By Pest

Pest Variet	ty Pest Vari	ety Pest	Variety	Pest	Variety
Ants (Queen)	Colorado Potato Beetle	Greater Wax Moth	*	Root Weevils	
Armyworm 🔴 🗰	Corn Earworm	Grubs		Scarabs	
Artichoke Plume Moth	Corn Rootworm	Humpbacked Flies		Sclarids	
Asparagus Beetle	Cotton Bollworm	Indian Meal Moth	*	Shore Flies	
Bagworm 🔺	Cranberry Girdler	Iris Borer		Small Hive Beetle	* 🔿
Banana Moth	Cranberry Root Weevil	Japanese Beetle	▲ ★	Sod Webworm	
Banana Weevil	Crane Flies	Large Pine Weevil		Strawberry Root Weevil	• • *
Beet Armyworm 🛛 🛑 🔳	Cucumber Beetle 🛛 🛑 🔳	Leafminers		Sugarcane Stalk Borer	
Berry Root Weevil	Cutworm	May/June Beetles	▲ ★	Sweet Potato Weevil	
Billbug	Diaprepes Root Weevils	Mint Flea Beetle		Termites (Subterranean)	■★
Black Cutworm	E 11 A	Mint Root Borer		Thrips	
Black Vine Weevil 🛛 🛑 🔺 🗰	Flea Beetle	Mole Crickets	•*	Ticks	
Bluegrass Weevil	Flea (Larvae, Pupae)	Navel Orangeworm		Tobacco Budworm	
Cabbage Maggot	Flea (Adult)	Onion Maggot		Tobacco Cutworm	
Carrot Weevils	Fly Larvae	Pink Bollworm	*	Vine Borers	
Caterpillars	Fruit Flies	Plum Curculio	*	Webworm	
Chafer (European, masked) 🔺 🗰	Fungus Gnats	Raspberry Crown Borer		Western Flower Thrips	
Citrus Root Weevil	Gall Midges	Red Flower Beetle	*	Wireworm	
Codling Moth	Grape Root Borers	Root Maggots		Wood Borers	

BENEFICIAL NEMATODES



SINGLE SPECIES		
SKU	Size	Price
A NemaSee	k Heterorhabditis ba	acteriophora
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
NemAttao	k Steinernema felti.	ае
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
NemAttao	k Steinernema carp	ocapsae
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
🗰 NemAttao	k Steinernema riob	rave
1220410	≈5 million	\$36.00
NemaSee	k Steinernema krau	ssei
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 Heterorhabditis indica		
1220200	≈5 million	\$36.00

Beneficial Nematodes

- = NemaSeek[™] Heterorhabditis bacteriophora (Hb)
- = NemAttack[™] Steinernema feltiae (Sf)
- = NemAttack[™] Steinernema carpocapsae (Sc)

COMBO PACKS			
SKU	Size	Price	
A Nem	naSeek Hb & NemAttac	k 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	
🔺 📕 Ner	NemaSeek Hb & NemAttack Sf		
1220333	≈10 mil. per species	\$60.00	
1220334	≈50 mil. per species	\$125.00	
1221700	≈250 mil. per species	\$340.00	
1220336	≈500 mil. per species	\$500.00	
NemAttack Sf & NemAttack Sc			
1220340	≈10 mil. per species	\$60.00	
1220341	≈50 mil. per species	\$125.00	
1220342	≈250 mil. per species	\$340.00	
1220343	≈500 mil. per species	\$500.00	

- g = NemAttack[™] Steinernema riobrave (Sr)
- → = NemaSeek[™] Steinernema kraussei (Sk)
- -= NemaSeek™ *Heterorhabditis indica* (Hi)

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

SIZE & COVERAGE CHART

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

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

- = NemaSeek[™] Heterorhabditis bacteriophora (Hb)
- = NemAttack[™] Steinernema feltiae (Sf)
 - = NemAttack[™] Steinernema carpocapsae (Sc)



OMRI LISTED SINGLE SPECIES			
SKU	Size	Price	
🛑 NemAtta	ack Pro Sc Beneficial I	Vematodes	
4005010	≈10 million	\$52.00	
4005050	≈50 million	\$90.00	
4005250	≈250 million	\$250.00	
4005500	≈500 million	\$325.00	
TRIPLE COMBO			
SKU	Size	Price	
NemaSeek Pro Hb Beneficial Nematodes, NemAttack Pro Sf Beneficial Nematodes & NemAttack Pro Sc Beneficial Nematodes			
4007010	≈10 mil. per species	\$125.00	
4007050	≈50 mil. per species	\$225.00	
4007250	≈250 mil. per species	\$630.00	
4007500	≈500 mil. per species	\$880.00	



OMRI Listed Beneficial Nematodes

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

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

PEST INSECT TRAPS



Sticky Traps

Monitor & Trap For Best Pest Identification!

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

Aphid/Whitefly Yellow Sticky Traps:

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

Thrips/Leafminer Blue Sticky Traps: TARGET: Thrips, leafminers.

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

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



Gnat Stix

TRAPS

\$6.65 \$11.50 \$20.50

STICKY APHID

TRAP

HITEFLY

Enoz[®] BioCare[®] Gnat Stix

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

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

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

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

1280501	Gnat Stix - 12 Per Pack
1280502	Gnat Stix - 12 Per Pack - Bundle of 2
1280503	Gnat Stix - 12 Per Pack - Bundle of 4

ARBICO Organics® Yellow Insect Traps

Monitoring + Trapping = Effective Pest Control

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

DESCRIPTION: ARBICO Organics Yellow Insect Traps are 5" x 7" gridded, 2-sided adhesive traps for a wide range of crawling and flying insect pests. Insects are drawn in by the bright color and are caught on the glue. Once they are trapped, the



gridded surface makes it easy to count just how many have landed. Having the insects immobilized on the trap also makes it easy to identify them. There is a very low risk to beneficials, but some may become caught by accident.

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

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

1254501	ARBICO Organics Yellow Insect Traps - 5 Pack	\$4.99
1254502	ARBICO Organics Yellow Insect Traps - 10 Pack	\$8.90
1254503	ARBICO Organics Yellow Insect Traps - 25 Pack	\$19.75
1254504	ARBICO Organics Yellow Insect Traps - 50 Pack	\$37.50
1254510	ARBICO Organics Yellow Insect Traps - 100 Pack	\$70.00

Pest Wizard Blue-Yellow Card Trap

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

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

DESCRIPTION: Blue on one side, yellow on the other. These dual-duty traps will capture an array of pests using specific color wavelengths and MessyLess™ non-toxic adhesive that won't stick to your fingers. Each pack contains 4

rectangular traps, 8 hangers and instructions. Traps are weather resistant and measure 8" x 3.5".

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

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

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



Yellow Stiky[™] Tape

Longer Length Tape To Cover Even More Area.

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

DESCRIPTION: When you have an insect population in a large area that you need to monitor and trap, this sticky tape is the choice for you. It will



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

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

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

Blue & Yellow Sticky Ribbon Rolls



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

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

DESCRIPTION: These sticky ribbon rolls are an effective way to trap and monitor insects in large growing areas. Install around the perimeter of your garden or greenhouse and, since they are double-sided, they will trap insects coming and going. They can also be

placed along the ground to catch crawling insects. Blue attracts thrips and leafminers and yellow attracts aphids, whiteflies and other soft-bodied insects. Pheromone lures or essential oils can be added to increase catch potential.

SUGGESTED USE: For best results, install the trap at the time of planting as a preventative treatment. Rolls can remain in place until the trapping surface is fully covered with insects or debris. It can be wrapped around fenceposts or stakes that are driven into the ground, or it can be attached to greenhouse posts with staples or string.

1254420	Blue Sticky Ribbon Roll - 6" W x 328' L	\$60.00
1253220	Yellow Sticky Ribbon Roll - 6" W x 328' L	\$60.00
1254422	Sticky Ribbon Roll Bundle - 6" W x 328' L (1 of ea.)	\$115.00

ARBICO Organics® Blue Insect Traps

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

TARGET: Thrips, leafminers.

DESCRIPTION: ARBICO Organics Blue Pest Traps are 5" x 7" gridded adhesive traps that are the perfect shade of blue to make them irresistible to Thrips and Leafminers. The color lures them in and the sticky surface holds them tight. These traps have adhesive on both sides to grab insects no matter which direction they're coming from. If you are mon-



itoring, the gridded surface and bright color allow for easy identification and counting. When used in conjunction with the ARBICO Organics Yellow Sticky Traps, you will have the right colors to attract most common insect pests. There is a very low risk to beneficials, but some may become caught by accident.

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

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

1254551	ARBICO Organics Blue Insect Traps - 5 Pack	\$4.99
1254552	ARBICO Organics Blue Insect Traps - 10 Pack	\$8.90
1254553	ARBICO Organics Blue Insect Traps - 25 Pack	\$19.75
1254554	ARBICO Organics Blue Insect Traps - 50 Pack	\$37.50
1254560	ARBICO Organics Blue Insect Traps - 100 Pack	\$70.00



Trapline t+ Sticky Roller Trap

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

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

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



SUGGESTED USE: For best results, install the trap at the time of planting as a preventative treatment. Rolls can remain in place until the trapping surface is fully covered with insects or debris. It can be wrapped around fenceposts or stakes that are driven into the ground, or it can be attached to greenhouse posts with staples or string.

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

CATERPILLAR CONTROL

BT NOW®

An Extremely Effective Biopesticide That Controls Crop-Damaging Caterpillars.

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



OMRI

DESCRIPTION: Uses a strain of *Bacillus thuringiensis kurstaki* to provide broad spectrum control for a long list of *Lepidopteran* pests that

feed on a wide variety of plants. Carefully monitor your crops to identify target pest infestations and apply as soon as insects are found or when there are first signs of feeding. Water-based formula, stabilized with UV inhibitors with low resistance potential. Will not harm pollinators or beneficials. 4-hour REI. Compatible with many commonly used fertilizers, pesticides and adjuvants. OMRI listed.

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

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

Fertilome® Dipel® Dust

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

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

DESCRIPTION: This is a biological insecticide powered by the bacterium *Bacillus thuringiensis kurstaki* (Btk). Btk targets pests in the *Lepidoptera* order and poses no threat to any animal or insect

outside that order. When a caterpillar ingests treated foliage, the Btk releases a type of endotoxin which paralyzes the caterpillar's

digestive tract. The caterpillar will stop feeding and die a short time later. Use on vegetables, shrubs, lawns and flowers.

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

1207010	Fertilome Dipel Dust - 1 lb. Puffer	\$7.99
1207011	Fertilome Dipel Dust - 4 lb. Bag	\$8.99
Cannot be shipped to the following states: AK, CA, HI		

DiPel[®] Pro DF & DiPel[®] DF

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

TARGET: Caterpillars, armyworms, bagworms, budworms, loopers, spongy moth larvae, earworms and webworms.

DESCRIPTION: This dust-free, flowable powder bioinsecticide works quickly; pests will stop feeding within the hour and die in a few hours to

3 days. Use the smaller-sized DiPel PRO DF for ornamentals and small edibles. The larger-sized DiPel DF is meant for agriculture production. People, beneficials, birds, fish and wildlife are not affected by DiPel.

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

1207005	DiPel Pro DF - 1 lb.	\$24.75
1207004	DiPel DF - 5 lbs.	\$119.50

BONIDE® Thuricide

Caterpillar Targeting *Bacillus thuringiensis* var. kurstaki

TARGET: Control of caterpillars.

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



SUGGESTED USE: Easy-to-use for all spray applications, just mix 1-4 tsp. per gallon of water

and apply to plants. It is important to target the underside and top of leaves to ensure good coverage. The mix rate you use is dependent on the level of infestation – there is no harm to the plant if you use a stronger mix rate.

1201205	BONIDE Thuricide RTU - Quart	\$12.99
1201206	BONIDE Thuricide RTU - Gallon	\$41.48
1201201	BONIDE Thuricide Liquid Concentrate - 8 oz.	\$10.97
1201202	BONIDE Thuricide Liquid Concentrate - 16 oz.	\$15.99

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For biological control of caterpillars see page 11.

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OMD

GRUB & BEETLE CONTROL

BIOLOGICAL GRUB CONTROL

NemaSeek[™] Hb Beneficial Nematodes



Milky Spore

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Beneficial Nematodes are one of nature's most powerful weapons available for managing Japanese Beetle infestations. Along with parasitizing the beetles in their larval, underground damaging stages, they

also parasitize the larval states of other pest grubs, weevils, fleas, leafminers and more. Apply with a watering can, hose end sprayer or backpack sprayer. See pages 12-13 for more information.

JAPANESE BEETLE CONTROL

Milky Spore Powder

Specific, Long Lasting Larval Control.

TARGET: Japanese beetle grubs.

DESCRIPTION: Contains *Bacillus popillae* bacterium, lethal to soil-borne grub stages of Japanese beetles. Grubs that normally feed on roots of grass and vegetables will ingest the bacterium, which will cause death in about 1-3 weeks. As grubs decompose they re-release bacteria spores. The spores can remain in the soil for about ten years, and in some cases up to 20 years.

In warmer climates, control can occur in 1-3 years (after one application) and in cooler climates, 3-5 years. Can apply with other fertilizers, will not harm animals and can be applied to food crops. For best results, apply with **NemaSeek Hb Beneficial Nematodes** (see pages 12-13), which will aid in spreading the bacterium to grubs. Store in a cool dry place to maintain shelf life.

SUGGESTED USE: Use All-Purpose Dispenser Tube for easy application (see online). White chalk carries the bacterium, and the resultant treated area should resemble a checkerboard. Water within about 48 hours for about 15-20 minutes to permeate into soil and do not mow or rake until thoroughly soaked.

Apply about 1 tsp., every 4 ft., in rows 4 ft. apart. 10 oz. covers \approx 2,500 sq. ft., 40 oz. covers \approx 1/4 acre, 50 lbs. covers \approx 4.5 acres.

1216001	Milky Spore Powder - 10 oz Covers ≈2,500 sq. ft.	\$31.99
1216040	Milky Spore Powder - 40 oz Covers \approx 1/4 acre	\$84.99
1216045	Milky Spore Powder - 25 lb. Drum - Covers ≈2.25 acres	\$800.00
1216052	All-Purpose Dispenser Tube	\$14.50
Cannot be s	hipped to the following states: CA, OR, WA	

If you are unsure if Japanese Beetles have invaded your county, please contact your County Extension Agent to find out.



GRUB CONTROL

BioCeres® WP

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

1332890	BioCeres WP - 1 lb. Bag	\$90.00
See page 21 for r	nore information.	

AzaGuard®

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

1222204	AzaGuard - 32 oz.	\$225.00
See online for m	ore information.	

BONIDE® Captain Jack's™ Neem Max

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

1246610Captain Jack's Neem Max - 8 oz. Conc.\$14.99See page 20 for more information.

BEETLE CONTROL

Monterey Take Down Garden Spray

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

1257915Take Down Garden Spray Concentrate - Pint\$19.99See page 23 for more information.

PyGanic® Gardening

Rapid Knockdown & Kill For Outdoor Pests In Your Garden.

1288710	PyGanic Gardening - 8 oz.	\$25.50
See page 23 for m	ore information.	

Azera® Gardening

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

1288740	Azera Gardening - 8 oz.	\$41.00
See online for more	e information.	

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



MOSQUITODUNKS

after a 7-10 day interval. For Fungus Gnat control: Spread the granules over the soil until the area is covered. Moisture in the soil will dissolve the Bits. Re-apply every 3 weeks.

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

1211108	Mosquito Bits - 8 oz.	\$10.95
1211136	Mosquito Bits - 30 oz.	\$17.80
1211130	Mosquito Bits - 20 lbs.	\$119.00
1211139	Mosquito Bits & Dunks Combo Kit	\$18.99

Mosquito Dunks®

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

TARGET: Mosquitoes.

DESCRIPTION: When placed in standing water, Mosquito Dunks will float on the water and they will slowly release the bacteria *Bacillus thuringiensis v. israelensis* (Bti) as they melt. This bacterium is a potent mosquito larvicide and as it disperses into the water it is eaten by, and kills, the mosquito larvae growing there. Dunks can be anchored with a string to keep them from washing away. They can also alternate between being wet and dry without losing

effectiveness. Bti targets specific pests and is not harmful to people, animals or plants. Each dunk is effective for 30 days.

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

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

AQUABAC[®] 200G Granular Bti Mosquito Control

Use This Bti Larvicide Wherever You Have Mosquitoes Breeding

TARGET: Larval stages of mosquitoes and black flies.

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



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

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

 *Free Shipping on 40 lb. bag only, in the contiguous 48 states.
 Ships via Ground ONLY. Call for pallet pricing.

AQUABAC® Xt

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

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

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



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

1211160	AQUABAC Xt - 2.5 Gallons*	\$190.00
1211161	AQUABAC Xt - 2.5 Gallons/Case of 2*	\$340.00
*Free Shipping in the contiguous 48 states. Ships via Ground ONLY.		
Cannot be shipped to the following states: NY		

MULTI-PURPOSE

Organic JMS Stylet-Oil®

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

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

DESCRIPTION: Use this multi-purpose, year-round fungicide, insecticide and antiviral spray oil in greenhouses, on field crops and on fruit trees. Kills powdery mildew on contact and prevents occurrence for up to 14 days and controls mites, whiteflies and leafminers. Made from paraffinic oil and is colorless,

tasteless and odorless. 4-hour re-entry interval; no pre-harvest interval.

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

1274107	Organic JMS Stylet-Oil - Gallon	\$38.50
1274108	Organic JMS Stylet-Oil - 2.5 Gallons	\$60.00
*Call for fraight quat	Lorgor sizos ovoilable	

*Call for freight quote. Larger sizes available.

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

M-Pede[®]

A Highly Effective, Organic Version Of Insecticidal Soap.

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

DESCRIPTION: This organic foliar spray insecticide/ miticide/fungicide is made from potassium salts of naturally derived fatty acids (aka insecticidal soap) and

can be used on a wide range of crops grown organically or conventionally in fields, greenhouses, or interiorscapes. M-Pede works in all life stages of mites, aphids and whiteflies – with other listed insect pests, the effects are limited to early growth stages and eggs. 12-hr REI & 0-day PHI.

SUGGESTED USE: This product may be applied with most types of ground or aerial spray equipment, but **DO NOT** use with pulse/thermal fogger applicators or apply through any type of irrigation or hydroponic system. M-Pede rates as low as 0.25% v/v or as high as 4% v/v may be used. The 2% v/v rate is the most frequently used stand-alone rate. **Do not** mix with sulfur or use within 3 days of a sulfur application. To avoid any possible plant injury do not make repeat applications at less than 7-day intervals, or make more than 3 sequential applications at 7- to 14-day intervals

1247650	M-Pede - 2.5 Gallons	\$142.50
1247652	M-Pede - 2.5 Gallons - Case of 2	\$256.50

The Amazing Doctor Zymes Eliminator

products available OMRI LISTED

Use This Year Round For Pest & Mildew Free Plants.

OMRI

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

DESCRIPTION: This OMRI listed product is made with naturally occurring organic materials and citric acid to produce a multiple action fungicide/miticide. As a miticide, it works by interfering with the pest's ability to breath, fatally breaking down protein and



organic materials in eggs and acting as a deterrent. As a fungicide, the citric acid destroys the biomass of the spores and alters the pH to create an environment hostile to growth. Best when used preventatively.

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

1459200	The Amazing Dr. Zymes Eliminator - Quart RTU	\$14.65
1459201	The Amazing Dr. Zymes Eliminator - Quart Conc.	\$34.75
1459202	The Amazing Dr. Zymes Eliminator - Gallon Conc.	\$125.95
Larger sizes av	ailable	

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

SuffOil-X®



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 photoxicity, 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	\$77.00
1332806	SuffOil-X - Case of 2 ct./2.5 Gals.	\$138.60
Larger sizes available.		

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



INSECTICIDES

NEEM OIL

BONIDE® Captain Jack's™ Neem Max



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

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

DESCRIPTION: Made with 70% cold pressed neem oil, this product works as a repellent, a suffocant, an anti-feedant, an insect growth regulator by disrupting the growth/molting process and as a poison if ingested. As a fungicide this product will inhibit mycelial growth by coating the spores, which prevents further spore

development. This product will not kill fungal pathogens outright, it will only inhibit further develop so it is crucial to treat the area ahead of a severe infestation. Kills the eggs, larvae & adults.

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

1246610	Captain Jack's Neem Max - 8 oz. Conc.	\$14.99
1246611	Captain Jack's Neem Max - 16 oz. Conc.	\$22.99
Cannot be shipped to	o the following states: DC, HI, ME, PR	

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 limoniods, fatty acids, esters and synergistic inerts for top-notch bioactivity. Effective against a wide range of biting and sucking insects, soil-borne pests, and several devastating fungal diseases, this

is also an exceptional fly repellent. Can be applied as a foliar spray, soil drench, in soilless media or in recirculating systems. This residue-free formulation is EPA registered, UV stabilized to reduce risk of crop burn and has a 0-day PHI. Can be used with beneficial insects.

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

1450551	EcoWorks EC - 4 oz.	\$9.86
1450553	EcoWorks EC - 16 oz.	\$25.99
1450554	EcoWorks EC - 32 oz	\$43.99
Cannot be shipped to the following states: AK, ME, MD, MA, VA		

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.



OMR

DESCRIPTION: OMRI listed Rango is an emulsifiable concentrate made of 70% cold pressed Neem Oil

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

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

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

Monterey Neem Oil

Effective Against Indoor And Outdoor Insect Pests & Fungal Diseases!

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

DESCRIPTION: Insecticide/Miticide Use:

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



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

1555615	Monterey Neem Oil - 32 oz. RTU	\$14.49
1555616	Monterey Neem Oil - 16 oz. RTS	\$29.49
1555613	Monterey Neem Oil - 8 oz. Concentrate	\$15.99
1555614	Monterey Neem Oil - Pint Concentrate	\$24.99
1555618	Monterey Neem Oil - Gallon Concentrate	\$144.49
RTU (1555615) cannot be shipped to the following states: ND, WY		

Concentrate and RTS cannot be shipped to the following states: OR



OMR

BIORATIONALS

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 subtsugae* strain PRAA4-1^T to

provide long-lasting, reliable broad spectrum control of a long list of labeled pests. Its mode of action is multi-faceted; it is toxic when ingested, it repels and it reduces insect reproduction. This OMRI listed and NOP compliant organic pesticide/miticide can be a valuable part of any IPM program. Can be used on a wide range of edible crops in field and greenhouse applications.

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

1332953	Grandevo CG - 1 lb.	\$40.00
1332954	Grandevo CG - 4 lbs.	\$140.00
1332952	Grandevo WDG - 6 lbs.	\$162.00
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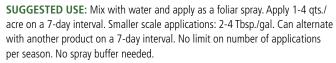
Grandevo CG cannot be shipped to the following states: FL

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.



1332957	Venerate CG - Quart	\$58.00
1332956	Venerate CG - Gallon	\$145.00
1332960	Venerate XC - 2.5 Gallons	\$260.00

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

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 preirrigated 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.

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

\$260.00

OMP

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

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

1332890	BioCeres WP - 1 lb. Bag	\$90.00
1332895	BioCeres WP - CA Version - 1 lb. Bag	\$90.00
Case sizes avail	able.	
CKU 1222000 -	annat ha chinnad to the fallowing states. AV 10	

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





OMRI

INSECTICIDES

Monterey Garden Insect Spray

Insect Pests & Powdery Mildew Don't Stand A Chance With This Spinosad Product!

TARGET: Caterpillars, leafminers, thrips, fire ants and other pests as listed on the label.

DESCRIPTION: This OMRI listed spray is made with Spinosad and is specially formulated for use in home environments such as gardens, lawns, ornamentals, shrubs, trees and non-commercial greenhouses. The Spinosad in this spray works on insects' nervous systems, causing paralysis and death within 1-2 days. Because the insects are par-

alyzed, they may remain stuck on the plants and be mistaken for live insects; we recommend you check your plants 2-3 days after spraying to re-evaluate your control. Not for commercial use.

SUGGESTED USE: Apply when listed pests are present. Thoroughly spray and drench all plant foliage until wet, taking care to include undersides of leaves. Repeat applications may be made as indicated in the "Use Restrictions" section of the label. Toxicity: This product is toxic to bees for 3 hours following treatment. This product is also toxic to aquatic invertebrates such as insects, crustaceans. mollusks and worms.

1257907	Monterey Garden Insect Spray - 32 oz. RTU	\$13.49
1257906	Monterey Garden Insect Spray Conc 32 oz. RTS	\$31.49
1257900	Monterey Garden Insect Spray Conc Pint	\$19.99
1257905	Monterey Garden Insect Spray Conc Quart	\$30.49
1257910	Monterey Garden Insect Spray Conc Gallon	\$103.49
Connot be chir	and to the following states: DC (Concentrate only)	

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

Earth's Ally[®] Insect Control

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

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

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

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

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

DES-X[™] Insecticidal Soap

OMRI Listed. A Fast-Acting Contact Killer For A Long List Of Insect & Mite Pests.

TARGET: Aphids, earwigs, flea hoppers, leafhoppers, mealybugs, mites, plant bugs, psyllids, rose slug larvae, sawflies, scale, spider mites, tent caterpillars, wooly aphids and whiteflies.

DESCRIPTION: This fatty acid-based insecticide is effective against adult, larval and nymph stages of target insects. It penetrates the body of the pest and causes death through disruption of the membrane and interference with normal cell functions. Can be



used throughout the growing cycle but is especially useful for treating/ spot-treating before the release of biological control agents. Use with care on blooms and sensitive plants. O-day PHI and 12-hr REI.

SUGGESTED USE: For best results, apply when infestation is first noticed. Field applications: apply 2% formulation, 2 gal product/100 gal water at a rate of 75-200 gal/acre using ground spraying equipment. Spray to wet but minimize runoff. Contact all parts of plants. Repeat applications every 1-2 weeks, but do not exceed 3 consecutive applications. Do not use when plants are under stress. Do not apply to new seedlings/ transplants without determining sensitivity first. Avoid spraying in full sun.

1247660	DES-X Insecticidal Soap - 2.5 Gal. Conc.	\$120.00
1247662	DES-X Insecticidal Soap - 2.5 Gal. Conc./Case of 2	\$216.00

SNS 203[™] Soil Drench/ **Foliar Spray**



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

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

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



SUGGESTED USE: Soil drench: 1 gal mixed solution to 10 gal potted plants or 230 sg. ft. Mix 4-8 Tbsp. or 2-4

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

1459135	SNS 203 Soil Drench Pouch Conc Makes 32 oz.	\$7.99		
1459130	SNS 203 Soil Drench - 16 oz. Conc.	\$24.00		
1459131	SNS 203 Soil Drench - Gallon Conc.	\$110.00		
1459132	SNS 203 Soil Drench - 5 Gallons Conc.	\$380.00		
Cannot be shipped to the following states: AL, AK, AR, CT, DC, DE, GA, IN, IA, KS, LA, MS,				
NH, NM, ND, SD, UT, WV, WY				



OMR.

OMRI



INSECTICIDES

AZADIRACHTIN

AzaSol™

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

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

DESCRIPTION: Azasol contains Azadiractin, a product of the Neem tree. In production, the Neem oil from the seeds of the trees is transformed into a yellowish-white,



OMRI

water-soluble amorphous powder suitable for spraying. When used as directed it is effective on adult insects, larvae and pupae. It will vigorously repel insects, kill them when they come in contact with the spray or feed on sprayed

plants and interrupt their life cycles. This powder quickly dissolves in water and won't clog equipment or leave an oily residue or discoloration on plants. Won't burn leaves or block photosynthesis. Can be injected in trees for quick results.

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

AzaSol25 oz.	\$19.99
AzaSol75 oz.	\$46.99
AzaSol - 6 oz. (8 x 0.75 oz.)	\$329.99
AzaSol - 1 lb. Bottle	\$599.00
AzaSol - 2 lb. Jug	\$1,297.00
	AzaSol75 oz. AzaSol - 6 oz. (8 x 0.75 oz.) AzaSol - 1 lb. Bottle

OMR

Neemix



Repels And Kills Sucking & Chewing Insect Pests In Their Immature Life Stages.

TARGET: Aphids, caterpillars, leafminers, loopers, mealybugs, onion maggots, oriental fruit flies, psyllids, stinkbugs, thrips, the larvae of diamondback moths and many, many more.

DESCRIPTION: This is an organic broad-spectrum Insect Growth Regulator (IGR) botanical insecticide with an active ingredient of Azadirachtin. Once a targeted insect (in its larval or nymph form) comes into contact with or ingests this product it interferes with its ability to molt. Treated larvae may die as nymphs. Penetrates leaves via

translaminar movement to affect pests on the underside but should still be applied in a manner to obtain complete coverage of plant parts. Minimal impact to beneficials. O-day PHI and 4-hour REI.

SUGGESTED USE: Apply when pests first appear. Repeat applications every 7 days or as needed. Repeated applications will break the pest life cycle. Target 30 ppm spray solution by using 4-10 oz/100 gals of carrier. Spray solutions should maintain a pH of 4-7. Use an adjuvant with lower application rates. Apply soon after mixing and do not store for later use.

PYRETHRINS

PyGanic® Gardening

Rapid Knockdown & Kill For Outdoor Pests In Your Garden.

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

DESCRIPTION: This updated version of PyGanic offers the same ingredients and results as the former PyGanic 1.4. Pyrethrins, the active ingredient here, is made from a daisy extract and has been



used effectively for a millennia. This formulation can be applied in a variety of ways, making it easy to use no matter the size of your garden. Spraying should begin when the insects first appear, not when they are already heavily infested. Thoroughly cover all plant surfaces. This OMRI listed, NOP compliant insecticide can be used throughout your growing season and up to the day of harvest.

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

1288710	PyGanic Gardening - 8 oz.	\$25.50
1288720	PyGanic Gardening - 32 oz.	\$64.00
1288730	PyGanic Gardening - Gallon	\$236.00

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 & pharoah 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 - Quart	\$12.99
1257915	Take Down Garden Spray Concentrate - Pint	\$19.99
1257916	Take Down Garden Spray Concentrate - Gallon	\$129.99
Concentrate o	cannot be shipped to the following states: DC, ND, WY	
RTU cannot b	e shipped to the following states: DC. IA, ND	

1457640

Neemix 4.5 - Quart Concentrate

\$245.00

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

FLY ELIMINATORS



WHAT ARE FLY ELIMINATORS?

The Sensible Alternative To Pesticides

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



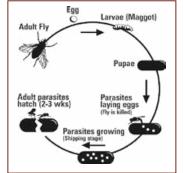
Fly Eliminators will only parasitize fly pupae and will not bother horses, cattle, livestock, pets, plants, or you.

Adult Fly Eliminator emerging from fly pupa.

HOW DO FLY ELIMINATORS WORK?

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

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



Life cycle of the fly parasite.

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

Philadelphia Park Recommends ARBICO's Fly Eliminators

"I was introduced to Fly Eliminators 30 years ago at a Racetrack Symposium and have been using them ever since. They've done a fabulous job and I have recommended Fly Eliminators



to many people! They're a great product! Their Fly Eliminators Program was green before green was popular. Without a doubt, this is the way to go. ARBICO Organics is a very good company!"

– Roy Smith, Former Track Manager of Philadelphia Park

WHO USES FLY ELIMINATORS?

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

• Feed Lots

Kennels

- Boarding Facilities
- Dairy Facilities
- Stables
- Aquariums
- Race Tracks Poultry
 - Zoos
 - Plus more

Equestrian Hobbyists

Urban Farmers

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.
- 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.

FLY ELIMINATORS

\hat{l} 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



CHURCHILL DOWNS

big corporations are going green and we were one of the first to go green by using Fly Eliminators."

- Butch Lehr, Former Track Manager of Churchill Downs

Del Mar Thoroughbred Club Relies On ARBICO Organics

"The Del Mar Thoroughbred Club horse racing facility has been using Fly Eliminators from ARBICO since 1985 with great success. Each summer nearly 2,000 horses and hundreds of thousands of race goers



converge on this community making fly control a top priority for both the Del Mar Thoroughbred Club and the community that relies so heavily on the agricultural product we promote. We appreciate the years of timely and professional service ARBICO Organics has provided and look forward to many more good years ahead. "

- Joe Harper, Chief Executive Officer of Del Mar

SPECIAL PRICING

LOCK IN THE LOWEST PRICES FOR 2023 PROGRAMS! Sign Up NOW & Pay LATER!

Only \$17.95 Per Shipment for 2-5 Horses USPS Shipping Included* in Prices!

Number of Horses/ Animals	Suggested Units†	VIP Price Per Shipment
1	1/4 Unit	\$14.95
2 - 5	1/2 Unit	\$17.95
6 - 10	1 Unit	\$27.95
11 - 15	1 1/2 Units	\$37.95
16 - 20	2 Units	\$49.95
21 - 25	2 1/2 Units	\$60.95
26 - 30	3 Units	\$70.95
31 - 35	3 1/2 Units	\$78.95
36 - 40	4 Units	\$85.95
41 - 45	4 1/2 Units	\$93.95
46 - 50	5 Units	\$97.95
51 +	Please Call 1-800-827-2847	

Order Your Fly Control Program Today! VIP Pricing Valid Through Dec. 31, 2022.

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.

¹These 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. © 2022 Arizona Biological Control, Inc.

ADULT FLY SPRAYS & REPELLENTS

Equiderma Horse Spray

This Powerful Spray Has A Light Citrusy Scent.

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

DESCRIPTION: This unique combination of botanical oils, neem and aloe will repel biting and blood-sucking insects, control future insect populations and protect your animal's skin from fungal and bacterial skin diseases. The oils are a powerful repellent; the neem oil has antibacterial, antiviral, anti-inflammatory and antifungal properties and also disrupts the insect life cycles,

while the aloe helps protect the skin and keep the coat nice and shiny. DEET, Pyrethrin and Permethrin free and can be used on horses, ponies, foals, dogs, pigs, cows, llamas, alpacas and chickens.

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

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

BugPellent[®] Fly & Tick Spray & BugPellent[®] Fly & Tick Gel

An Essential Oil-Based Insect Repellent Designed For You & Your Animals.

TARGET: Black flies, deer flies, gnats, horse flies, house flies, mosquitoes, stable flies and ticks.

DESCRIPTION: This highly effective non-toxic insect repellent uses 8 essential oils in a water-based, non-greasy formula. BugPellent is not just effective against flies and ticks, it also repels gnats and mosquitoes. Can be used on horses, dogs and people (not for use on cats). Free of DEET, alcohol, solvents, pyrethrins, pyrethrums or pyrethoids. FIFRA 25(b).

SUGGESTED USE: Spray: Brush fur/hair on animal to remove dust and dirt prior to application. Spray onto body then lightly brush or wipe into fur/skin. Do not saturate an animal's fur. **Wipe-On:** Spray onto cloth or sponge and wipe on in the direction of the hair. Use Gel around face and eyes. **Gel:** Apply liberally, avoiding eyes and mucous membranes. Repeat application daily or as needed.

1256044	BugPellent Spray - 32 oz. w/attached conc. refill	\$20.00
1256045	BugPellent Gel - 8 oz.	\$8.00
1256046	BugPellent Gel - 16 oz.	\$11.00

Ecovet[™] Fly Repellent

A Vet-Created Fly Repellent That Will Improve Insect-Related Skin Sensitivity.

TARGET: All manner of flies (including stable and horn flies), ticks and lice.

DESCRIPTION: Ecovet uses a proprietary blend of naturally occurring fatty acids that disrupt and confuse the signals that insects are drawn to. The fatty acids in Ecovet are carried in a silicone oil during application. Once applied, the oil will evaporate in about 20-30 minutes, leaving just the fatty acids behind. They will then evaporate at



a certain body temperature point, causing a "zone of repellency" around the animal. With regular use, you will even see improvement in Sweet Itch (hypersensitivity reaction to midge bites) problems with horses.

SUGGESTED USE: Only need to apply once every 2-3 days, depending on ambient temperature, fly pressure and rain (when treating for Sweet Itch, however, you should initially spray the animal twice a day until it is under control). Will not affect Fly Eliminators[®], honeybees and other beneficials. Apply to hair coat using any commercially available small sprayer, suitable oil applicator or a soft cloth.

1107550	Ecovet Fly Repellent - 4 oz. Bottle	\$8.95
1107551	Ecovet Fly Repellent - 18 oz. Bottle	\$24.50
1107552	Ecovet Fly Repellent - Gallon Refill	\$128.00

Horse Fly TweetMint

Keeps Biting Insects Away & Leaves Everything Smelling Minty-Fresh.

TARGET: Horse flies, deer flies, ticks, mosquitoes and more.

DESCRIPTION: This is a non-toxic spray for use on horses that is designed to repel and eliminate bloodsucking insects. Made of ingredients that are either natural, plant-based or naturally occurring, you can apply this liberally to your animal without worry. In fact, this spray is formulated for use as a shampoo as well. It provides strong repellent power, but it will



also leave your animals, and the whole area, smelling great. Helps to remove bot eggs. Highly concentrated. Hypoallergenic, biodegradable and non-toxic.

SUGGESTED USE: Repellent: Dilute 2-4 oz. in a 32 oz. spray bottle of water. Spray liberally over the entire body. When applying to the head/face and ears, spray onto a clean mitt or cloth and apply gently. Be careful to avoid getting solution in eyes. Can be sprayed onto droppings, in/around barns, paddocks or stable areas. **Shampoo:** Use concentrate and shampoo animal as usual. Reapply each time the animal is washed, exposed to heavy rain, or sweating.

1202640	Horse Fly TweetMint - 16 oz.	\$35.00
1202641	Horse Fly TweetMint - 32 oz.	\$50.00
1202642	Horse Fly TweetMint - 64 oz.	\$87.50
1202643	Horse Fly TweetMint - Gallon	\$150.00



ADULT FLY TRAPS

ADULT FLY TRAPS & REPELLENTS

Biting Fly Trap

No Poisons! No Baits! No Electricity!

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

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



to 5,000 flies! Each package contains the following: 1 fiberglass cylinder, 1 wooden stake, 2 brass fasteners, 2 giant paper clips, 1 sticky sleeve, 1 replacement sleeve (additional sleeves can be purchased as needed) and complete instructions.

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

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

BugPellent® Cylinder

All The Fly Control For Little Expense & None Of The Chemicals.

TARGET: Black flies. deer flies. gnats. horse flies. house flies, mosquitoes, stable flies and ticks.

DESCRIPTION: This ingenious insect repellent uses the vapors of 9 essential oils to create a repellent barrier that will keep a broad range of insects away from your animals. Simply hang where it's most needed and the pleasant-smelling oil vapors will accumulate under the ceiling and float down to protect the animals. Lasts 4-8



weeks, depending on temperature and airflow; refills available.

SUGGESTED USE: Do not combine with insect attractant products. Use in barns, stalls, garages or any enclosed or semi-enclosed structure where the vapors can accumulate. Don't use with fans, the strong airflow they create will prevent the necessary vapor build-up. Use a minimum of 2 cylinders per structure or use 1 cylinder for approximately every 4,000 cu. ft. of indoor space, or 1 cylinder for every 11/2 stalls. Hang between 7-12' high at least 6' from a door and 3' from a window. Allow for adequate airflow around the cylinder. Can be placed in entryways at least 6' inside building.

1256040	BugPellent Cylinder	\$18.95
1256041	Refills - 2 Pack	\$20.00



ARBICO Organics® Solar Fly Trap

Heavy Duty, Reuseable, Portable & Lightweight Fly Trap!

TARGET: Adult flies.

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

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

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

*FREE SHIPPING via ground or US Mail ONLY.

Harris[®] Super-Sized Fly **Sticky Traps**



HARRIS

Use Indoors Or Out – Wherever You Need A Little Extra Fly Control.

TARGET: Aphids, flies, fruit flies, gnats and more.

DESCRIPTION: With 6" x 8" of super-sticky trapping surface on both sides, this pesticide-free trap can be used inside or outside. In addition to flies, this larger-than-average trap will also snare many common plant pests. Comes with a twist tie for hanging.

SUGGESTED USE: Avoid placing trap in areas where children, pets and non-target species of wild birds

or animals may come into contact with the trap. Remove the protective film and hang. This trap is meant to hang freely-do not stick onto surfaces. Inspect monthly and discard when full of insects or debris.

1254259

\$12.99

Super-Sized Fly Sticky Traps - 20 Pack

SOIL TESTING/SEED STARTING

SOIL TESTING



Luster Leaf® Rapitest® Soil Test Kit

A Quick Way To Test N-P-K!

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

Luster Leaf[®] Rapitest[®] Digital Soil pH Meter



Supplies Quick &	Clear Soil pH Readings.	
1275222	Rapitest Digital Soil pH Meter	

Luster Leaf[®] Rapitest[®] Digital Soil Test Kit



\$15.99

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

1275231

Rapitest Digital Soil Test Kit - 25 pk

Luster Leaf® Rapitest® Mini Soil 4-in-1 Tester



\$25.99

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

works Quickly to give you All the Essentials For Healthy Gro

1275235

Rapitest Mini Soil 4-in-1 Tester



Luster Leaf[®] Rapitest[®] Mini Soil pH Tester



\$8.99

Know Your Soil pł	In Minutes!
1275237	Rapitest Mini Soil pH Tester



CowPots[™]

Eco-friendly CowPots are a top quality plantable pot. Gardeners, farmers, and commercial growers are using and raving about this product. CowPots are made with 100% renewable composted cow manure, are 100% biodegradable, and can simply be planted in the soil with your plant.

With a few easy steps you'll love using CowPots.

Visit www.arbico-organics.com for more detailed directions and information for sizing.

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	\$21.43
1430054	iHort 40/40 Q-Plugs - 50 ct. Refill Bag	\$20.69

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

SEED STARTING/CROP PROTECTION

DTE Starter Mix, 3-3-3

A Perfect Mix Of Nutrients & Mycorrhizae For New Plantings.

TARGET: Flowers, herbs, trees, shrubs and vegetables.

DESCRIPTION: If you want healthy plants from the start, this is the soil mix for you. This OMRI listed and CDFA registered organic mix is a powerful combination of primary and secondary plant nutrients and endomycorrhizal fungi. The fungi encourage expansive root development and



MR

robust early growth in new plantings. The nutrients will encourage lush, leafy development and provide a foundation for strong, sturdy plants.

SUGGESTED USE: Apply to surrounding soil when seeding or transplanting, or blend into seed-starting and potting mixes. Make sure that roots come in contact with product. New veg gardens/flower beds: ¼-½ cup/sq. ft. or 2½-5 lbs/100 sq. ft. New transplants: 1-2 Tbsp./ hole. For seeding: ¼ cup/linear row foot. Outdoor containers (new): 2 Tbsp./gal soil or 1 cup/cu. ft. (established) 2-4 Tbsp./gal soil. Trees/shrubs (new & transplants): mix 1-3 cups with backfill soil into and around the hole.

1300264	Down To Earth Starter Mix - 1 lb.	\$5.99	
1300265	Down To Earth Starter Mix - 5 lbs.	\$17.99	
Cannot be shipped to the following states: AR, CT, DE, HI, IL, IN, IA, KS, MS, NH, ND, OK,			

PR, SD, VT, WV, WY

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.	\$17.95
1305582	Prococo Compressed Chips-N-Fiber Block - 10 lbs.	\$17.95
1305581	Prococo Compressed CocoChip Block - 10 lbs.	\$17.95

Agribon®

Protect Your Fruits, Vegetables, Row Crops, Trees & 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 stabalizers. 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.

AMENDMENTS

ARBICO Organics® Compost Plus

Revitalizes Soil & Speeds Up Decomposition Of Organic Matter.

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



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

1305601	Compost Plus - 1 lb. Bag	\$8.90
1305602	Compost Plus - 5 lb. Bag	\$11.50
1305610	Compost Plus - 1 Cubic ft. Bag	\$17.00
1305603	Compost Plus - (2) 1 Cubic ft. Bags	\$28.00
1305607*	Compost Plus - 1/2 Ton Pickup Truck Load	CALL
*Call to arrange pickup. Pickup in Catalina, AZ.		

DTE Azomite Powder, 0-0-0.2



The A To Z Of Minerals Including Trace Elements.

DESCRIPTION: This OMRI listed and CDFA registered organic slow-release fertilizer is sourced from the dust of an ancient volcano. Brimming with minerals and trace elements, Azomite Powder can boost plant and root system growth and give you higher yields of quality plants with beautiful blooms and tasty fruit and produce. On top of all that, continued use of Azomite will re-mineralize nutrient-depleted soil for successful future

plantings. This powder blends easily and can be applied directly to your soil or used in conjunction with other amendments, fertilizers, compost, manure and soil inoculants.

SUGGESTED USE: Standard application rates: 1.5 cups≈1 lb; ¼ cup≈2.5 oz; 1 Tbsp.≈0.5 oz. Vegetable gardens/flower beds: Prepping new gardens use 1-2 lbs/10 sq. ft. New transplants: 1-2 tsp/hole. Containers: For new plantings, 1-2 Tbsp./gal soil or 0.5-1 lb/cu. yd. soil. Established plants, 1-2 tsp/gal soil every other month in growing season. Trees, Shrubs & Vines: 1 lb/2" of trunk diameter. For grapes, 0.5-1 lb around each plant. For new trees mix 4-8 oz with backfill soil into and around the hole.

1309300	Down To Earth Azomite Powder - 1 lb.	\$5.49
1309301	Down To Earth Azomite Powder - 5 lbs.	\$15.49
Cannot be shipped to the following states: FL, IA, NC, ND, PR, WV, WY		

ARBICO Organics® Earthworms -*Eisenia fetida*

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

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



\$45.00

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

1308003

ARBICO Organics Earthworms (≈1,000) Subject to seaonal availability.

ARBICO Organics® Earthworm Castings

So Good For Your Garden It's Almost Magical!

DESCRIPTION: A sustainable byproduct of vermiculture, these castings have a bounty of benefits for your soil. They provide a slow release of micronutrients and trace minerals, add microbial life, reduce transplant shock, aerate and condition the soil and add chitnase (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. Topdress around pots beds, shrubs, trees or rows at a rate of 1/4"-1/2" every 2-4 mos. Incorporate into the top several inches of pots or beds prior to planting or mulching. Repeat when transplanting to reduce shock. Apply onto turf and rake in for lush, green grass.

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

MYCORRHIZAE

ARBICO Organics® Root Build 240™ Mycorrhizal Fungi

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

DESCRIPTION: New Root Build 240 contains both micronized Endo and Ecto mycorrhiza for a wide range of plant applications. This greater diversity in beneficial fungi meets the needs of a greater variety of plants. When introduced early in the life of a plant, the endo and ecto will increase the roots' ability to absorb water and nutrients. Endomycorrhizae work within and around the roots of most vegetables, grasses, flowers and ornamentals while ectomycorrhizae live only on the outside of roots and focus on



DYNOMYCO

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 mychorrhizal spores (1 oz. is \approx 3 Tbsp.) For vegetables, grasses, flowers, shrubs, fruit trees and ornamentals.

1135001	ARBICO Organics Root Build 240 -1 oz.	\$9.00
1135002	ARBICO Organics Root Build 240 - 2 oz.	\$12.50
1135003	ARBICO Organics Root Build 240 - 8 oz.	\$31.50
1135004	ARBICO Organics Root Build 240 - 1 lb.	\$45.00
1135005	ARBICO Organics Root Build 240 - 10 lbs.	\$329.00
*Free shipping in the	contiguous 48 United States via USPS mail.	

DYNOMYCOTM

Two Strains Of Mycorrhizae That Help Plants Reach Their Highest Potential.

DESCRIPTION: This innovative mycorrhizal inoculant contains *Glomus intraradices* and *Glomus mosseae*. Sourced from the Israeli desert, these two strains have adapted to thrive in harsh conditions (high salinity, drought). Rapidly colonizes the root zone for multiple benefits. Provides improved phosphorus availability. Can be used with organic and synthetic fertilizers. Highly concentrated & cost effective. Compatible with soil, coco, or soilless

blends. Provides a high rate of transplant success and rapid, strong plant development with robust root growth and improved nutrient uptake. Do not use with systemic fungicides.

SUGGESTED USE: Apply before transplant in the transplant hole, as a rootball coating, or mixed into the growing medium. Must make direct contact with the roots of the plants to be fully effective. With initial planting of seeds, clones, or seedlings: 1 tsp/pint of growing media. When transplanting: 1 tsp/gal either mixed in media or spread in bottom and sides of planting hole.

1135110	DYNOMYCO Mini-Pouch - 3.5 oz.	\$14.00
1135111	DYNOMYCO Dynamite Stick - 7 oz.	\$26.00
1135112	DYNOMYCO Small Pouch - 12 oz.	\$28.00
1135113	DYNOMYCO Large Pouch - 1.65 lb.	\$52.00

Cannot be shipped to the following states: AR, ID, IN, IA, LA, MD, MN, MS, NH, NC, ND, SC, SD, UT, WV, WI, WY

Plant Thrive

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

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

Mikro-Myco

A Heady Combination Of Mycorrhizae, Rhizobacteria & Beneficial Fungi.

DESCRIPTION: Mikro-Myco contains a combination of endo and ectomycorrhiza, phosphate solubilizing fungi (PSF) and plant growth promoting bacteria (PGPB). Together, the mycorrhizae and supplemental microbes work to develop the ultimate interchange between roots, soil, and plants. It will encourage root growth, but also provide fungal hyphae in the root zone to help move nutrients up into the soil. The



beneficial fungi in this blend are able to release fixed phosphorus and provide support for the plant to fight off pathogens and overcome stressors, allowing the plant to put its energy into maximizing growth and fruit/flower output.

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

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

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

MICROBIAL INOCULANTS

SCD ProBio Balance Original™

Promotes & Restores A Healthy Microbial Balance.

DESCRIPTION: This is a blend of probiotic cultures that have been produced through a natural fermentation process that uses proprietary probiotic technology. When introduced into any living system, these cultures promote the growth of naturally occurring beneficial microorganisms. Contains enhanced levels of phototropic Purple Non-Sulfur Bacteria (PNSB). These bacterial can live in both aerobic and anaerobic environments, which allows this

highly concentrated product to work in many different applications. All-natural, environmentally safe and biodegradable.

SUGGESTED USE: Large scale food composting: Spray on compost at a rate of 1-3 liters/ton of compost material. Dilute with water as needed. Indoor composting: Dilute at a ratio of 1:10 with water and apply every 2 weeks. Commercial/residential odor control: Spray on the affected areas at a rate of 1:10-1:100.

1202120	SCD ProBio Balance Original - Gallon	\$27.45
1202121	SCD ProBio Balance Original - Quart	\$70.35

EM•1[®] Microbial Inoculant

Faster Breakdown Of Organic Matter.

DESCRIPTION: EM-1 is a versatile microbial product that converts organic matter into humus and improves soil structure; it can be used in garden, agricultural, hydroponic and houseplant applications. It works by producing high levels of polysaccharides, beneficial enzymes and organic acids. The resultant amended soil is better able to absorb and retain moisture, as well as cycle nutrients. As it rapidly breaks down organic matter around animals and in compost piles, it lessens odors and will leave fewer breeding areas for flies and other insects.

SUGGESTED USE: Can be applied via a hose-end sprayer or other watering device. General application rate is 1 oz (2 Tbsp.) per gal/water. Hydroponics: Add EM-1 as a 3% solution several times a week.

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

Call for larger sizes.

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





OMRI

Earth Alive[™] Soil Activator[™]

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

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



OMP

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

1202170	Earth Alive Soil Activator - 1.76 oz.	\$4.29
1202171	Earth Alive Soil Activator - 15 oz.	\$19.99
1202172	Earth Alive Soil Activator - 2.2 lbs.	\$36.99
Connet be chinned to the following states: AL AD CT HI KS LA MD SD MAY WI		

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

Armory[®] SP



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

DESCRIPTION: Each of the four *Bacillus* and *Streptomyces* species in this 100% water soluble organic powder bring their own assets to the table, and in combination with the others they work synergistically to achieve maximum performance in promoting plant health. Also provides a steady food source for the microbes so they can continue to flourish in your soil (or soilless media) throughout the life of your plants. Solubilizes phosphorus and makes iron and manganese more available. Breaks down



cellulose and lignin and enhances nutrient cycling. Leaves no residue and is not phytotoxic. Compatible with fungicides, insecticides, fertilizers and biological stimulants **but avoid mixing with** copper sulfate pentahydrate, sulfur and hydrogen peroxide type products.

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

1202165	Armory SP - 2 oz.	\$34.99
1202166	Armory SP - 1 lb.	\$165.45

FEATURED FERTILIZERS

Fish Sh!t

Provides A Robust & Diverse Microbe Profile For Multiple Plant Benefits.

TARGET: Fruits, herbs and vegetables grown in soil, hydro or coco.

DESCRIPTION: This OMRI listed soil conditioner is a byproduct of a Tilapia farm where the fish are fed a propriety mix of organic feed. At the proper time, the digested feed is carefully harvested and bottled under strictly managed conditions. The result is a product with a complex microbial profile of thousands of different species of bacteria, fungi and protozoa. These microbes are essential to maintaining a living soil and to growing

top quality plants. Fish Sh!t will increase yield and nutrient uptake, release essential oils and terpenes for aromatic and flavorful plants and fruits, and promote overall health to keep your plants growing and producing at their highest level.

SUGGESTED USE: Soil: Can be used in conjunction with any nutrient line and in all phases of the plant's lifecycle. 3-6 mL per gallon. Hydro/Coco: 2-4 mL per gallon.

1315100	Fish Sh!t - 120 mL (4 oz.)	\$19.88
1315101	Fish Sh!t - 250 mL (8.5 oz.)	\$33.75
1315102	Fish Sh!t - 500 mL (17 oz.	\$56.25
1315103	Fish Sh!t - Liter (34 oz.)	\$101.25

High Phos Bat Guano, 3-6-1

Provides A Healthy Dose Of Both Phosphate & Calcium.

TARGET: For lackluster plants that need a boost of phosphate and calcium.

DESCRIPTION: This high-quality guano is produced by insect and fruit eating bats in the jungle of Indonesia (where it's sustainably managed and harvested). It's 42% organic matter and contains a significant amount of both phosphate and calcium. Phosphates spur root

growth, smooth the way for optimal nutrient uptake and help create plentiful, high-quality blooms and foliage. Calcium is essential for strong plant tissues, vigorous growth and healthy cell activity.

SUGGESTED USE: Gardens & landscapes: Up to 22 lbs/ 1000 sq. ft. Gently dig into the soil surface once per month or as desired. Transplanting & premixing soil and top dressing: 1 tsp/gal soil or growing medium. Tea mixes: 2 Tbsp./ gal into a mesh bag (never loose in solution).

1300130	High Phos Bat Guano - 5 lbs.	\$16.95
Cannot be shipped to the	following states: CA, ID, WA	

Earth Juice[™] Hi-Brix MFP, 0-0-3

This Traditional Favorite Makes An Exceptional Addition To A Plant's Diet.

TARGET: Plants in need of a boost of high-quality nutrition.

DESCRIPTION: This is a plant additive made from pure premium grade, unsulphured sugar cane molasses. It contains carbohydrates (sugars), as well as macro/micronutrients and will give your plants a little jolt of energy when they need it. Can be used through all the stages of plant life, including the transitional and ripening stages. 72% Brix. For use indoors and out. Excellent for brewing teas.



SUGGESTED USE: Slowly add product and mix into a volume of room temperature water or fertilizer solution.

Hand Feeding: Mild-1 tsp., Medium-1 Tbsp., Strong-2 Tbsp. Use every 4 weeks. Hydroponics: Mild-0.25 tsp., Medium-0.50 tsp., Strong: 1 tsp. Add at every nutrient change. It is recommended to continuously aerate the reservoir solution. Every 7-14 days, drain and flush the reservoir with clean water. Compost Tea: 4 Tbsp. Add prior to brewing.

1305750	Earth Juice Hi-Brix MFP - 32 oz.	\$11.99
1305751	Earth Juice Hi-Brix MFP - Gallon	\$29.99
Cannot be shipped to the following states: PR, VA, WY		



HastaGro Plant Food, 6-12-6 Gives Plants Multiple Types Of Goodness In One Product.

TARGET: Potted plants, flowers, vegetables, trees, shrubs, transplanting and bed preparation.

DESCRIPTION: Contains a high quality 6-12-6 plant food for first-rate nutrition, a soil activator that stimulates biological activity in the soil, humic acid to improve soil structure and nutrient uptake, and seaweed extracts to boost fruiting and flowering. Will not cause leaf burn. Nitrogen is from clean urea sources and complexed with humic acid. Prevents salt and chemical buildup.



SUGGESTED USE: Foliar Feeding: ½ oz/gal water. Spray leaves to point of dripping. Do not rinse. Use every 1-2 weeks. Soil Treatment: 1 oz/gal water. Thoroughly water. Use every 2-3 weeks. Houseplants: ½ oz/gal water. Soak soil and/or spray leaves. Use every watering. Transplanting: 1 oz/gal water. Spray foliage and water roots. Do not use undiluted. Use within several hours of mixing. Do not store mixed solution.

1304740	Hasta Gro Plant Food - 32 oz. Concentrate	\$12.89
1304741	Hasta Gro Plant Food - Gallon Concentrate	\$32.49



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.

products available

DTE All	Purpose Mix, 4-6-2	
Fertilizer Fo	r All Of Your Growing Needs!	
1300209 1300207	Down To Earth All Purpose Mix Mini - 1 lb. Down To Earth All Purpose Mix - 5 lbs.	\$5.99 \$15.99
DTE Ba	t Guano, 7-3-1	Products available OMARI LISTED For Organic Use
High-Nitrog	en Fertilizer From Bat Guano.	
1300006 1300007 1300008	Down To Earth Bat Guano Mini25 lb. Down To Earth Bat Guano - 2 lbs. Down To Earth Bat Guano - 10 lbs.	\$5.99 \$16.99 \$57.99
DTE Bio	o-Live, 5-4-2	Products svallable OMRILISTED For Organic Vice
A Microbe-F	Rich Fertilizer To Help Build Living Soil!	
1300260 1300261 1300262	Down To Earth Bio-Live - 5 lbs. Down To Earth Bio-Live - 25 lbs. Down To Earth Bio-Live - 50 lbs.	\$20.49 \$74.98 \$119.99
DTE Cit	rus Mix, 6-3-3	products evaliable COMPRI LISTED For Organic Use
The Nutrien	ts You Need For Vibrant & Delectable Cit	rus!
1300295	Down To Earth Citrus Mix - 1 lb.	\$5.99

1300295	Down To Earth Citrus Mix - 1 lb.	\$5.99
1300296	Down To Earth Citrus Mix - 5 lbs.	\$15.99
Larger sizes available - please go online or call.		

DTE Fish	Bone Meal, 4-12-0	OMR LISTE For Organic
Marine Based	Bone Meal For All Of Your Growing Nee	ds.
1300286	Down To Earth Fish Bone Meal Mini - 1 lb.	\$5.99
		+

1300280	Down to Earth Fish Bone Meal Mini - 1 ID.	\$2.33
1300287	Down To Earth Fish Bone Meal - 5 lbs.	\$16.99

Get 3 Crucial Plant Nutrients In One Mineral Application.



OMRI

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DTE Rose & Flower Mix, 4-8-4

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

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

DTE Vegetable Garden, 4-4-4



Give Your Vegetable Garden A Powerful Nutrient Boost!

1300298	Down To Earth Vegetable Garden - 1 lb.	\$4.49
1300299	Down To Earth Vegetable Garden - 5 lbs.	\$14.99
1300294	Down To Earth Vegetable Garden - 15 lbs.	\$39.99



FERTILIZERS

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

The Best Of Both Products For A Complete Fertilization Program.

TARGET: All types of plants and crops.

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

1315012	Pint	\$14.99
1315011	Quart	\$22.79
1315013	Gallon	\$54.59
1315014	5 Gallons	\$164.99
Larger sizes available		

Larger sizes available.

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

Versatile Without Unpleasant Odors!

TARGET: Soils requiring rapid nourishment.

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

1315001	Pint	\$12.49
1315000	Quart	\$18.49 🔛
1315002	Gallon	\$45.49
1315003	5 Gallons	\$151.29

Larger sizes available.

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

Contains Over 60 Naturally Occurring Nutrients & Amino Acids!

TARGET: Plants and crops exposed to stress.

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

1315008	Pint	\$13.99
1315007	Quart	\$19.49
1315009	Gallon	\$47.49
1315010	5 Gallons	\$174.79

Larger sizes available.









OMRI

Do You Know What Fertilizer Your Plants Need?

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



maxicro

Improves Germination & Helps Prevent Diseases.

TARGET: Soils that need additional minerals.

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

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

1313001	Maxicrop Soluble Seaweed Powder - 10.7 oz.	\$20.00
1313002	Maxicrop Soluble Seaweed Powder - 27 oz.	\$38.00
1313003	Maxicrop Soluble Seaweed Powder - 5 lbs.	\$70.00
1317202	Maxicrop Soluble Seaweed Powder - 44 lbs.	\$463.20



Maxicrop[®] Kelp Meal, 1-0-2

Successful Growers Choice To Correct Deficiencies & Improve Plant Nutrition!

TARGET: Deficient soils that need macronutrients.

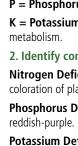
DESCRIPTION: Maxicrop Kelp Meal (1-0-2) is composed of slow-dried, ground seaweed - cleaned, desalted and dust free. This is a rich organic source of over 70 trace minerals (including calcium, magnesium, sulfur, and chlorine) as well as vitamins, amino acids and plant hormones. It is an excellent



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 \approx 3,000 sq. ft.; 2,200 lbs. treats \approx 3 acres.

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





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 needs support right from the start. Creating a hardy root zone is the first step in keeping diseases at bay. The introduction of beneficial microorganisms to the soil leads to increased colonization of the root zone. This creates an environment that enhances rooting and suppresses pathogens with a symbiotic network of roots and microbes filling the void where pathogens often enter. In doing so, disease incidence is reduced, plant health is boosted and harvest yields are increased.

RootShield® Plus Granules & RootShield[®] Plus WP

Use This Biological Fungicide To **Eliminate Hard To Control Diseases!**

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

DESCRIPTION: OMRI listed and EPA registered, this product will help eliminate damaging fungal pathogens by colonizing plant root systems and by boosting biological diversity of the rhizosphere. This unique product is comprised of live microbial beneficial fungi Trichoderma harzianumstrain T-22

and the newly developed Trichoderma virens strain G-41, delivering an extended array of pathogen control.

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

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

1332754	RootShield Plus Granules - 10 lb. Box	\$200.00
1332755	RootShield Plus Granules - 40 lb. Bag	\$440.00
1332756	RootShield Plus WP - 1 lb. Bag	\$140.00
1332757	RootShield Plus WP - 3 lb. Box	\$300.00

Largre sizes available.

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

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OMRI

Howler Fungicide

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

TARGET: Alternaria, Botrytis, Colletotrichum, downy mildew, Fusarium, Pestalotiopis, Phytopthora, 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 O-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				

MilStop SP Foliar Fungicide

Excellent For Controlling Powdery Mildew & Other Fungal Diseases!

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

DESCRIPTION: MilStop SP is an OMRI listed foliar fungicide. This potassium bicarbonate-based fungicide kills powdery mildew on contact by pulling



water from spores and their growing strands. It also inhibits enzymes involved in fungal cell wall formation by altering the pH on the leaf surface. Foliar applications provide 1-2 weeks of residual protection.

SUGGESTED USE: Milstop must be mixed with water before spraying. Field applications: Mix 2-5 lbs. per acre in a volume of water sufficient for complete coverage of plant foliage. Greenhouse applications: Mix 1.25 - 5 lbs per 100 gallons of water. (See label online for specific crops, diseases and application systems.)

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



DISEASE CONTROL

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 P_s classification. 4-hour REI.

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

1332968	Regalia CG - Quart	\$51.00
1332969	Regalia CG - Gallon	\$120.00
1332970	Regalia - 2.5 Gallons	\$235.00

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

Asperello T34 Biocontrol

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

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

DESCRIPTION: This biological fungicide/ bactericide uses the dried spores of the beneficial fungus *Trichoderma asperellum* strain T34 to

provide plant protection, boost overall plant growth, and improve plant defenses against plant diseases and abiotic stresses. Meant to be used preventatively. Optimal soil temperature for use is 68-86°F. High spore count for rapid root colonization and faster protection.

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

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

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

Mycostop[®]

A Versatile & Highly Effective Stand-Alone Biofungicide.

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

DESCRIPTION: This classic biofungicide contains mycelium and spores of *Streptomyces* Strain K61, a naturally occurring bacterium derived from *Sphagnum* peat. This strain controls some



OMR

of the most destructive of plant pathogens by rapidly colonizing plant roots, displacing the pathogenic fungi there and robbing it of nutrients; disrupting and ultimately breaking down the cell wall of the pathogens and producing metabolites that constrain the pathogens while encouraging plant defense mechanisms and healthy growth. For best results, use preventatively.

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

1332981	Mycostop - 5 grams	\$36.00
1332982	Mycostop - 25 grams	\$138.00
Cannot he shinned to	o the following states: AL AK DC HLID IA LA NE	ND SC SD TN

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

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, Phytopthora and more.



DESCRIPTION: Cease is an organic contact fungicide/bactericide containing a patented strain

of *Bacillus subtillis*. 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 phytoxicity or residues on flowers or foliage.

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

1332724	Cease - Gallon	\$85.00
1332727	Cease - 2.5 Gallons	\$185.00
1332725	Cease - Gallon, Case of 4	\$306.00
1332728	Cease - 2.5 Gallons, Case of 2	\$333.00



OMR

DISEASE CONTROL

Monterey Complete Disease Control

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

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

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



OMRI

OMP

SeroTol HC

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 sg. ft. of lawn.

1458203	Complete Disease Control - 32 oz. RTU	\$16.99
1458204	Complete Disease Control - 32 oz. Hose-End RTS	\$28.49
1458200	Complete Disease Control - 8 oz. Concentrate	\$12.99
1458201	Complete Disease Control - Pint Concentrate	\$16.99
1458202	Complete Disease Control - Gallon Concentrate	\$96.99
SKUS 1458200	1458201 1458202 & 1458204 cannot be shinned to the	following

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

ZeroTol® HC

Clean Up & Protect Your Plants With One Powerful Product.

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

DESCRIPTION: ZeroTol HC has been designed for use in hemp and cannabis production and for homeowners and hobby growers. Use this OMRI

listed product on hard, non-porous surfaces to eliminate pathogens that linger there. It can also be applied to soil and directly to all kinds of plants to prevent/ treat/control many common plant diseases and algae growth. Made from Hydrogen Peroxide and Peroxyacetic Acid. No strong odor or toxic residue.

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

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

Procidic®

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

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

DESCRIPTION: This WSDA certified foliar spray uses citric acid to eliminate pathogenic fungi and bacteria. This exceptional product will work on contact,



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

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

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

Cannot be shipped to the following states: AL, AK, GA, HI, ID, IN, KY, MS, MT, NC, SC, SD, TN, UT, WV, WI, WY

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 micronic 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, PR		

CLEANING & SANITIZING

i) The Power of Peroxyacetic Acid

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

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

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

SaniDate[®] 5.0



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

DESCRIPTION: Contains hydrogen peroxide and peroxyacetic acid as an alternative to chlorine to sanitize and disinfect post harvest equipment, fruit and vegetables and various hard surfaces. Usage industries include farms, dairies, beverage plants,

food processing plants, greenhouses, etc. No dumping or run-off restrictions.

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

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

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

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

OxiDate[®] 2.0

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

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



OMR

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

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

1222501	OxiDate 2.0 - 2.5 Gallons	\$230.00
1222502	OxiDate 2.0 - 5 Gallons	\$340.00
Larger sizes available. All sales are final. No returns or refunds allowed.		
*Free Shipping in the contiguous 48 states. Ships via Ground ONLY.		
Cannot be shipped to the following states: PR, VI, GU, AS, PW, AK, HI		

ZeroTol[®] 2.0

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

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

DESCRIPTION: This liquid wonder uses a combination of Hydrogen Peroxide and Peroxyacetic

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

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

 1222401
 ZeroTol 2.0 - 2.5 Gallons
 \$230.00

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

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



OMR



OMRI

WEED CONTROL

WEED BARRIERS

WeedGuardPlus® Organic -Heavy Weight Rolls

This Tough Weed Block Will Hold Up Under The Elements!

TARGET: Use for weed suppression.

DESCRIPTION: This paper weed block is adaptable to nearly any size growing operation in nearly any environment. 100% biode-



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

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

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

PRE-EMERGENT

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

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

TARGET: Knockdown control for annual grasses and broadleaf weeds.

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



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

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

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

SELECTIVE

BONIDE[®] Captain Jack's[™] Lawnweed Brew

Kills the Weeds – Not Your Lawn.

TARGET: Moss, algae, lichens, liverwort, lawn diseases (dollar spot, rust, snow mold), and common broadleaf weeds such dandelion, clover, chickweed and thistle.

DESCRIPTION: This product offers pre-and post-emergent control using an active ingredient derived from Iron(Fe). Mixes quickly and thoroughly with water and works quickly (within hours) to kill down to the roots. Can be applied in temperatures down to 50°F and is rainfast in 3 hours. Once the spray has dried, treated areas are safe for people and animals. Do not apply to recently seeded lawns, but lawns can be reseeded 1 day after application. Gives lawns a green-up.



SUGGESTED USE: Use with any standard handheld, backpack, compression or knapsack sprayer. Mix 1 part product with 24 parts water (5 fl oz in 1 gal water). Repeat in 3-4 wks for spot control. Pre-emergent control; Apply 5-10 gals of spray solution/1,000 sq ft depending on weed pressure. Reapply 3-6 wks later. Ensure lawn is well watered before application. Do not apply to bentgrass. Do not apply at temps over 85°F. Do not apply if rainfall is expected with 3 hrs of application. Do not apply to the same area more than 4 times a year. To avoid staining, wait until treated area dries before re-entry.

1453754	Captain Jack's Lawnweed Brew - 16 oz. Conc.	\$14.99
1453752	Captain Jack's Lawnweed Brew - 32 oz. Conc.	\$21.99
Cannot be shipped to the following states: CA, PR		

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.



OMR

1453808	Avenger Weed Killer - 24 oz. RTU	\$12.95
1453809	Avenger Weed Killer - Quart Concentrate	\$30.00
1453810	Avenger Weed Killer - Gallon Concentrate	\$90.00
1453812	Avenger Weed Killer - 5 Gallons Concentrate	\$330.00
Cannot be shipped to the following states: DC, PR, SD, VI		

ARBICO Organics – Natural Solutions Since 1979

WEED CONTROL

BROAD SPECTRUM

Avenger® AG Optima Burndown Herbicide

Product a valiable De Organic Live Ver Organic Live

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

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

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

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

1453740	AG Optima - 32 oz. Concentrate	\$35.00	
1453741	AG Optima - Gallon Concentrate	\$110.00	
1453713	AG Optima - 2.5 Gallons - Case of 2 (5 Gal.)	\$425.00	
Cannot be shipped to the following states: CA			

*Call for freight quote.

BioSafe Weed & Grass Killer

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

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

DESCRIPTION: Biosafe Weed & Grass Killer is a non-selective herbicide that works on contact when applied as a foliar application with a manual sprayer. For best results, cover plant leaves thoroughly

and uniformly with spray. Take care to avoid contacting wanted plants. This soap product uses Ammonium Nonanoate to penetrate the cell walls of the plant to disrupt their normal functioning and cause death. This product does not move through the soil or between plants and leaves no harmful residue.

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

1453822 Biosafe Weed & Grass Killer - Gallon Concentrate \$69.99



Homeplate[®]

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

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

DESCRIPTION: This OMRI listed organic spray is a blend of caprylic acid and capric acid that spreads easily for thorough coverage and causes rapid weed burndown. Total kill is generally within 12-72 hours. If rain falls within 3 hrs of treatment, an additional spray may be required. For best results, use during sunny or warm conditions. Optimize your spray



coverage and target small weeds. For use in and around all food and non-food crops. 24-hr REI & 0-day PHI.

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

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

Earth's Ally® Weed & Grass Killer



Simple Ingredients Create Superb Results.

TARGET: Kills all common weeds, including broadleaf, crabgrass, dandelion, clover, ivy, chickweed and more.

DESCRIPTION: This non-selective herbicide uses sea salt (sodium chloride) to quickly and thoroughly eliminate unwanted weeds. You'll get the results you want, without the harsh chemicals and harmful side-effects found in glyphosate herbicides. Kills all the way down to the roots with visible results in 3 hrs. Contains no pre-emergent qualities and will not



inhibit future plant growth, so you can replant or sod once the area is dry.

SUGGESTED USE: Use on a bright, sunny day and be careful to avoid overspray on desirable plants. Do not dilute. Thoroughly wet the weed you want to eliminate. Do not use during rainfall or when the weeds are wet. Multiple applications may be needed for certain tough and dense weeds. Avoid use when pollinators are active, otherwise this product is bee safe.

1459340	Earth's Ally Weed & Grass Killer RTU - 24 oz.	\$12.99
1459341	Earth's Ally Weed & Grass Killer RTU - Gallon	\$29.99





TOOLS & SUPPLIES

ThermX[™]-70 Natural Wetting Agent



Overcome Adverse Water Conditions!

TARGET: Increases water & fertilizer uptake.

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



SUGGESTED USE: Wetting Agent: $\approx 1/4$ tsp./gal. water, $\approx 2-3$ oz./acre. Soil: $\approx 1-2$ tsp./gal. water, ≈ 16 oz./acre

1402403	ThermX-70 Natural Wetting Agent - Quart	\$27.50
1402404	ThermX-70 Natural Wetting Agent - Gallon	\$94.50
1402405	ThermX-70 Natural Wetting Agent - 5 Gallons	\$350.00
1402406	ThermX-70 Natural Wetting Agent - 55 Gallon Drum*	CALL
*Call for freight quote. Call for larger sizes.		

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

Harris[®] Multi-Purpose Shaker & Multi-Purpose Sifting Scoop Applicators

Takes The Guesswork Out Of Applying Powders & Granules.

TARGET: Diatomaceous Earth and other granular and powdered products.

DESCRIPTION: These applicators make applying the proper amount of powder and granular products easy and mess-free. The shaker applicator has a wide mouth for easy filling and comes with a convenient scoop. The top of this shaker has 12 holes that can be adjusted so that you can control your pour to release the amount of product desired. The sifting scoop applicator has a thin edge that makes scooping easy and holds up to 3 qts. Additionally, it has 150 small holes which will hold the product in the applicator until you are ready to release it with a gentle shake.



SUGGESTED USE: The uses for these applicators are

nearly endless, you can use them with Diatomaceous Earth (DE), grass seed, ant/fire ant granules, fertilizers, cat litter, ice melt products, home and garden products and animal feed. The sifting scoop applicator can even be used in metal detecting to remove dirt and sand from around your finds.

1407005	Multi-Purpose Shaker Applicator	\$9.99
1407006	Multi-Purpose Sifting Scoop Applicator	\$13.99

Bug Blaster[™]

This Magic Wand Will Blast Away Destructive Bugs.

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

DESCRIPTION: With this sprayer, you can quickly and effectively wipe out soft bodied insects and/or rid your plants of detritus. It can also impede mildew growth by keeping plant and other



surfaces clean. All without using anything but water. The Bug Blaster nozzle creates a forceful 360° flat spray of water while the slender wand lets you insert it into, under and around the center of the plants to hit every plant surface. The spray will be strong enough to fatally traumatize soft bodied insects from eggs to adults, but will not harm the plants. Uses 60% less water than a standard spray gun.

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

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

GOPHER CONTROL

Root Guard Gopher Wire Baskets

Stop Gophers From Damaging Plant Roots!

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

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



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

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

Chase[™] Granular Mole & Gopher Repellent

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

TARGET: Gophers & moles.

DESCRIPTION: This is a biodegradable, granular repellent that will chase burrowing animals from your lawn or garden. Use from spring through late fall when the tunnels or cone-shaped mounds from these animals are present. Chase will not kill the target animals, but the active ingredient of Castor Oil is extremely irritating to them. It causes topical

itching when they come in contact with it, and when they ingest it they experience digestive distress. All of this will make them uncomfortable enough to avoid treated areas and relocate elsewhere.

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

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

COMPACTOR COLORIDA

RODENT CONTROL

BONIDE[®] Rat Magic[™]

Two Different Ways To Get The Same Great Rodent Control.

TARGET: Use to drive away rats, squirrels, chipmunks and other rodents.

DESCRIPTION: This combination of

cedarwood, castor, clove and peppermint oils is repugnant to rodents and triggers an escape/ avoidance response in them. This formula comes in two versions, granules and scent packs. Both are biodegradable and easy to use, simply choose what suits your particular needs the best. Not harmful to plants, people or pets.



SUGGESTED USE: Scent Packs: Distribute where rodents hide, feed or congregate. Use 1 pack per average size room and increase as needed until desired affect is achieved. Granules: Barrier/perimeter treatment - Sprinkle to create a band around area to protect. 1 lb. will treat a band 2' W x 100' L. For maintenance, use 1 lb/200 sq. ft. Reapply every 2 weeks or after rains. Indoor Use: Sprinkle where rodents hide, feed or congregate. Vacuum up and reapply every 2 weeks or until infestation is eliminated.

 1287720
 BONIDE Rat Magic Scent Packs - 8 Count
 \$16.99

 1287721
 BONIDE Rat Magic Granules - 5 lbs.
 \$19.99

 Cannot be shipped to the following states: 1287720: IN, ME, NM, SD
 1287721: IN, NM

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 $3'' \times 7'' \times 2.5''$.

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

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

CRAWLING INSECT CONTROL

FIRE ANT CONTROL

Fertilome[®] Come And Get It II Fire Ant Killer



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Kills The Whole Colony And Its Queen.

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

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

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

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

 Cannot be shipped to the following states: AK, CA, CO, HI, ID, MT, NM, NV, OR, WY

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.

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OMRI

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
 \$32.75

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

Aunt Fannie's Pest Powder

The Power Of Essential Oils In An Easy-To-Use Powder.

TARGET: Ants, bed bugs, fleas, roaches, silverfish and ticks.

DESCRIPTION: The essential oils in this pumice powder work to control many of the most common household pests and leave the area smelling great. With just one sprinkle of this versatile and vegan product you can get rid of multiple species of crawling pests. People and pet friendly. Contains no petroleum propellants. FIFRA 25(b) exempt. Product will settle during shipping and is sold by weight, not volume.



SUGGESTED USE: Not for use near birds, fish, snakes or

plants. **Indoors:** Sprinkle power evenly and lightly in areas where bugs can be found or where they enter the house. This includes cracks and crevices, on carpets, behind or around furniture, along closet perimeters, under the kitchen or bathroom sink and along windows and doorways. **Outdoors:** Sprinkle around the perimeter of your home.

1460035Aunt Fannies's Pest Powder - 11.5 oz.\$10.97Cannot be shipped to the following states: AK, NE, WA

Dr. Earth[®] Final Stop[®] Pest Control Killer Spray



Works Fasts & Provides Continued Protection For Weeks.

TARGET: Ants, centipedes, chiggers, cockroaches, crickets, earwigs, fleas, gnats, mosquitoes, moths, pillbugs, silverfish, spiders, stinkbugs, ticks and wasps.

DESCRIPTION: This organic pest control spray is crafted from a selection of essential oils (rosemary, sesame, peppermint, thyme, cinnamon and garlic). Each of these oils has its own valuable characteristics for pest control, but when put together their synergistic power outweighs each individual ingredient. Works as a knockdown and kill spray but will also provide weeks-long protection. Insect death occurs minutes to hours after application. No synthetic ingredients. For indoor or outdoor use.



SUGGESTED USE: This product is ready-to-use from the bottle. Prior to application, test a small, discreet area first to check for surface discoloration. Use around your home and garden. Thorough coverage of the insect is required. Repeat applications as often as needed to kill target insects. Do not spray plants directly, this is a very strong spray that will cause leaf burn.

1459360 Final Stop Pest Control Killer Spray - 24 oz. RTU \$12.99

CRAWLING INSECT CONTROL

Essentria[™] G Granular Insecticide

A Granular That Handles A Handful Of Outdoor Pests!

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

DESCRIPTION: This quick and long-lasting natural granular insecticide uses essential botanical oils clove, thyme and wintergreen to treat various pests. Easy-to-use outdoors on landscapes, turf, building facilities and

around organic operations, sensitive areas such as schools, and in aquatic environments.

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

1273050 Essentria G Granular Insecticide - 22 lbs.	\$67.50
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Essentria® IC-3 - Concentrate

TARGET: More than 60 flying and crawling pests including aphids, bedbugs, caterpillars, flies, mites, mosquitoes and

Kills And Controls Most Crawling & Flying Insects Most Anywhere You Find Them.

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DESCRIPTION: This essential oil insecticide contains rosemary oil, geraniol and peppermint oil to provide immediate knockdown and long-term residual control. It can be used in food preparation areas, schools and other places where there is a high level of human traffic. It can

also be applied directly to livestock, horses and poultry. This FIFRA 25(b) exempt product has Octopamine blocker technology and has no water setbacks.

SUGGESTED USE: Can be used indoors, outdoors, in fogging and mosquito misting systems on plants, turf and ornamentals and as a perimeter barrier. Can also be applied directly to livestock, horses and poultry. May be diluted with water or oil (for livestock applications). Use lower application rates for maintenance and higher for infestations. General pest control indoors (don't apply directly to houseplants): 0.5-6 fl. oz./gal. water. Bedbugs: 1-4 fl. oz./gal. water and apply as a spot treatment. Mound drench for fire ants: 2-4 fl. oz./gal. water. Mosquitoes and other biting insects: 1-3 fl. oz./gal. water. Turf/grass: 2-4 fl. oz./gal. water.

1273055	Essentria IC-3 - Concentrate - Quart	\$40.99
1273056	Essentria IC-3 - Concentrate - Gallon	\$129.99



Enoz[®] BioCare[®] Birdseed & Pantry Moth Traps

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

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

Enoz® BioCare® Clothes Moth Traps

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

1260702	2 Traps	\$6.99
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 Stop Sharing Your Food With Pesky Moths.

 1280318
 2 Pack
 \$5.99

 1280319
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Rid Your House Of Crawling, Creeping, Scurrying & Scuttling Pests!

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

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Works Day & I Poisons.	Night, Year-Round, To Eliminate	Fleas Without
1280110	1 Trap	\$16.99
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Professional Quality Cockroach Traps That Are Effective & Easy To Use.		
1260210	6 Pack	\$6.99
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Agribon	
Aphid Parasite - Aphelinus abdominalis	
Aphid Parasite - Aphidius colemani	
Aphid Parasite - Aphidius ervi	4
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AQUABAC Xt	18
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ARBICO Organics Earthworm Castings	
ARBICO Organics Earthworms - Eisenia fetida	30
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ARBICO Organics Yellow Insect Traps	
Armory SP	
Asperello T34 Biocontrol	
Assassin Bug - Zelus renardii	
Aunt Fannie's Pest Powder	
Avenger AG Optima Burndown Herbicide	
Avenger Weed Killer	
Avenger weed Killer	
AzaSol	
Azasol	
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Biting Fly Trap	
Blue & Yellow Sticky Ribbon Rolls	15
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	Trap-N-Kill Roach Traps lerma Horse Spray
	itria G Granular Insecticide
	tria IC-3 - Concentrate
	ome Come And Get It II Fire Ant Killer
	ome Dipel Dust
	5h!t
Fungi	us Gnat Predator - Stratiolaelaps scimitus
Glute	n-8 OLP Liquid Corn Gluten, 1.5-0-0
Grand	devo CG & Grandevo WDG
Greer	n Lacewings - Chrysoperla rufilabris
Harris	Multi-Purpose Shaker & Sifting Scoop
	Super-Sized Fly Sticky Traps
	Gro Plant Food, 6-12-6
5	Phos Bat Guano, 3-6-1
	eplate
	Ply TweetMint
	er Fungicide
	Q-Plug Propagation Kit r Leaf Rapitest Digital Soil pH Meter
	r Leaf Rapitest Digital Soil Test Kit
	r Leaf Rapitest Mini Soil 4-in-1 Tester
	r Leaf Rapitest Mini Soil pH Tester
	r Leaf Rapitest Soil Test Kit
	crop Kelp Meal, 1-0-2
	crop Soluble Seaweed Powder, 0-0-17
Mealy	ybug Destroyer - Cryptolaemus montrouzieri
Mealy	ybug Parasitoid - Anagyrus spp
Mikro	э-Мусо
Milky	Spore Powder
	op SP Foliar Fungicide
	te Pirate Bug - Orius insidiosus
	Predator - Amblyseius andersoni
	Predator - Neoseiulus californicus
	Predator - Neoseiulus fallacis
	Predator - <i>Phytoseiulus persimilis</i>
	erey Complete Disease Control
	erey Garden Insect Spray erey Neem Oil
	erey Take Down Garden Spray17,
	uito Bits
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	Egg Parasites - Trichogramma spp
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Neptune's Harvest Fish Fertilizer, 2-4-1	
Neptune's Harvest Seaweed Plant Food, 0-0-1	
Orange Guard Fire Ant Control	
Organic JMS Stylet-Oil OxiDate 2.0	
Pest Wizard Blue-Yellow Card Trap	
PFR-97 20% WDG	
Plant Thrive	
Procidic	
Prococo Coco Coir	
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Spider Mite Destroyer - Stethorus punctillum	
Sticky Traps	
SuffOil-X	
The Amazing Doctor Zymes Eliminator	
The Smart Mouse Trap	
ThermX-70 Natural Wetting Agent	
Thrips & Whitefly Predator - Amblyseius swirskii	
Thrips Predator - Amblyseius cucumeris	
Trapline t+ Sticky Roller Trap Venerate CG & Venerate XC	
WeedGuardPlus Organic - Heavy Weight Rolls	
Whitefly Parasite - Encarsia formosa	
Whitefly Parasite - Eretmocerus eremicus	
Whitefly Predator - Delphastus catalinae	
Yellow Stiky Tape	
ZeroTol 2.0	
ZeroTol HC	

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