



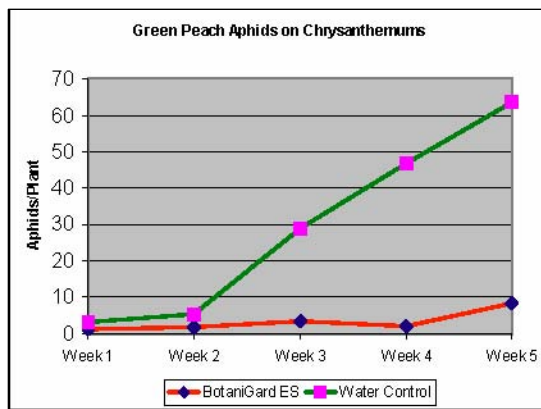
BioWorks®
How You Grow Matters™



Aphid Management

Programmed Protection™ with BotaniGard® Mycoinsecticide is an effective way to control green peach and melon aphids in greenhouse ornamental and vegetable production. This IPM-based program involves monitoring, early treatment, good spray coverage and good housekeeping practices.

Monitoring pest populations is critical in any reduced risk pest control strategy. Begin spraying BotaniGard as soon as aphids or other problem insects are noticed. The key is to get your insect control program started early before insect populations build. Early treatment will keep your insecticide program costs low and avoid the need for harsh chemical rescue treatments.



Visually inspect flowers and leaves for aphids.

Spraying should begin at the first sign of aphids. Aphid populations can build rapidly. Immatures grow rapidly, molting (shedding their skin) in 12 to 16 hours. A second spray should be made three days after the first spray, to contact those aphids which may have shed their skin prior to becoming infected. Sprays should continue on a 5-7 day schedule.

Application	Rate	Interval
1 application	1 qt/100 gal	first aphid
2 application	0.5 qt/100 gal	3 days
Subsequent app.	0.5-1 qt/100 gal	5-7 days

If the population is building rapidly or there is a migration of insects into the greenhouse, you may need to combine a chemical insecticide with your BotaniGard application to gain control of the population dynamics. BotaniGard can be tank-mixed with a variety of insecticides. Refer to *BotaniGard Insecticide Compatibility technical bulletin for specific compatibility information.*

Thorough spray coverage is critical to pest control. BotaniGard performs like a contact insecticide. The aphids need to be hit by the spray or come in contact with BotaniGard on the sprayed plant surface. Sprays should be directed to the portions of the plant with aphids, (i.e. typically the buds, the upper surface of the upper leaves and the undersides of the lower leaves.)

Greenhouse spray programs typically use a number of products for control of mites and powdery mildew. BotaniGard can be tank-mixed with most miticides and can be tank-mixed with some fungicides including Clearys® 3336, Tenn-Cop® 5E and Kocide®. The use of other fungicides may require an interval of several days between BotaniGard and fungicide sprays. BotaniGard can be used with sulfur volatilization programs. Refer to *BotaniGard Fungicide Compatibility technical bulletin for specific compatibility information for these and other products.*

BotaniGard is compatible with most beneficial insect programs. When sprayed according to label directions, BotaniGard will not reduce populations of *P. persimilis* mites, *A. colemani* and *A. aphidimyza* parasitoids, honeybees or most other beneficial insects.

NOTE: Use caution when making BotaniGard applications to open blooms, especially on varieties known to be sensitive. It is recommended that a small group of plants be tested for effects on open blooms before making applications to the whole crop. Always read and follow label directions.

To find out more about the BioWorks family of products, please contact us at 800-877-9443 or visit www.bioworksinc.com. © 2010 BioWorks, Inc.

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