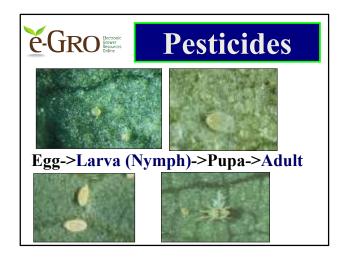
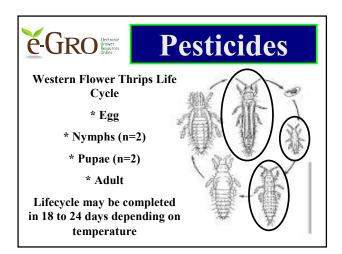


destroy, disable, or repel a given pest (insect and/or mite) population.













Reasons Why Pesticides Fail To Regulate Insect And Mite Pest Populations

- Not using correct pesticide (insecticide or miticide).
- Not using correct label rate.
- Not using appropriate application method.
- Not thoroughly covering all plant parts with spray application.

### é-GRO Hectronic Browspress

# Pesticides

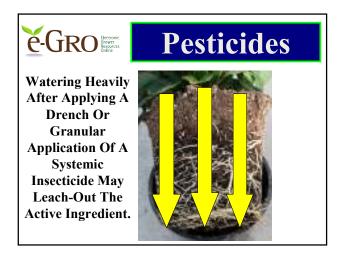
- Watering heavily after applying systemic insecticides: leaching material through container.
- Not adjusting the pH of the spray solution.
- Not applying pesticides when susceptible life stages (larvae/nymphs and adults) are predominantly present.

#### e-GRO Electronic Grower Online

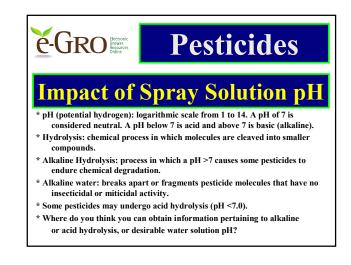
- Pesticides
- Not applying pesticides frequently enough; especially during spring through fall. Also, when dealing with multiple or overlapping generations (with different age structures).
- Not routinely scouting crop to determine effectiveness of the pesticide application.
- Not storing pesticides properly.



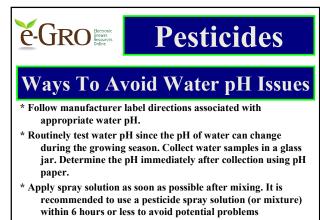








<b>Č-GRO</b> Berner Desticides Optimum Water pH of Certain Insecticides and Miticides Registered for Use in Greenhouses		
Abamectin	Avid	6.0 to 7.0
Acephate	Orthene	5.5 to 6.5
Azadirachtin	Ornazin	5.5 to 6.5
Bacillus thuringienisis	Dipel/Gnatrol	5.0 to 8.0
Fluvalinate	Mavrik	5.0 to 7.0
Imidacloprid	Marathon II	5.0 to 7.0
Methiocarb	Mesurol	6.5 to 7.0
Pyriproxyfen	Distance	5.5 to 6.5
Pymetrozine	Endeavor	7.0 to 9.0
Spinosad	Conserve	6.5 to 7.5



associated with pH.

# é-GRO

- \* Adjust water pH with buffers or water-conditioning agents, which are compounds that can alleviate problems with the process of alkaline hydrolysis and modify pH of the spray solution in order to maintain the pH within the desired range (5 to 7). Can use acetic acid (vinegar) to lower pH or household ammonia to raise pH.
- \* Websites:

http://floriculture.osu.edu/archive/apr04/SpraySolutionPH.html

http://www.griffins.com/tech\_service/bulletins\_2003\_4\_optimum pesticide\_performance.asp





## **é-GRO** Brevoir Brevoir Summary

- Timing, coverage, and frequency are important in using pesticides effectively.
- Failure to control or regulate insect and/or mite pest populations is not always due to resistance.
- Be sure to scout your crop to determine the effectiveness of your pesticide application whether it be foliar sprays, or drenches or granules applied to the growing medium.



