



## Pesticide Alternatives Lab

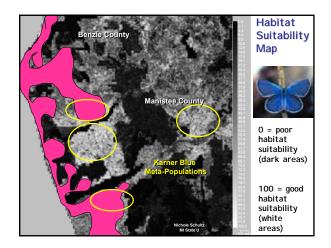
- History:
- Goals:
  - To serve <u>Agr.</u> and <u>Policy Makers</u> through innovation of appropriate <u>IPM Practices</u>...
  - To provide <u>Enviro.</u> and <u>Technical Services</u> to <u>Policy</u> <u>Makers, Farmers & Public Lands Managers</u>...
  - To <u>Train Pest Mngt. Scientists</u> for Tomorrow...
- <u>Our purpose</u> is to develop advanced IPM, Chemical Ecology & Organic Strategies, Tactics and Tools for Pest Management in Agriculture and on Public Lands.







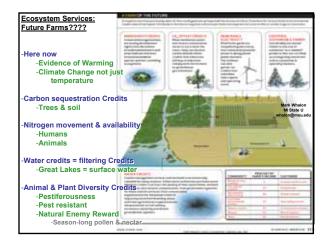


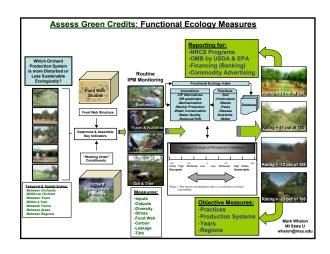


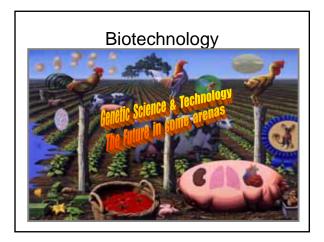
## US Pesticide Legislation • FQPA, FIFRA, Pesticide Reregistration Improvement Act • Endangered Species Act as amended • Clean Water Act as amended • Clean Air Act as amended • Numerous others More & More NGO's are Using Local & Federal Cours

## **Bottom Line**

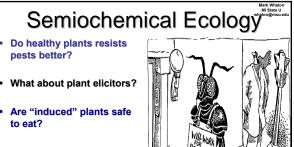
- Environmental Issues Will Increase – IPM IS a Terrestrial Ecological Measurement & Analysis System
- Instruments for these changes
  - Air & Water Quality Acts
  - FIFRA/FQPA/PRIA
  - Endangered Species Act
  - Upper Midwest = Great Lakes Annex
- Land Use Issues Will Increase



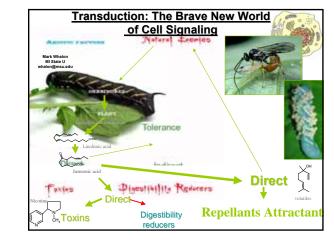




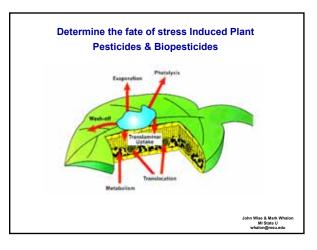


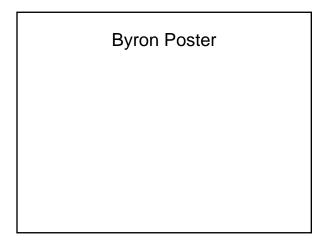


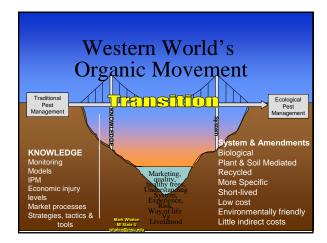
- How will nanotechnology affect production?
- How will regulations change agriculture?



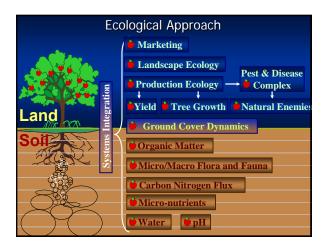


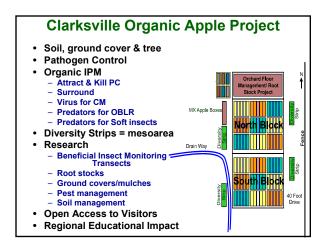




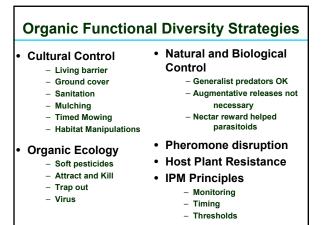


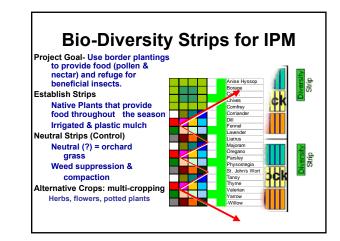




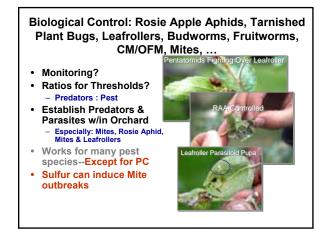












## **Granulosis Virus: Codling Moth** Key Issues - Cost - Timina

- Spray Frequency & Rate
- Integration with other **Tactics and Tools** 
  - Understanding establishment &
  - reinfestation
  - In Combination with Pheromones





- Better Bait Formulation.
- Get low-volume application technology distributed.
- · Adjust dosage to Adult fly densities to reduce costs.



