Summer Fruit Insect Pests

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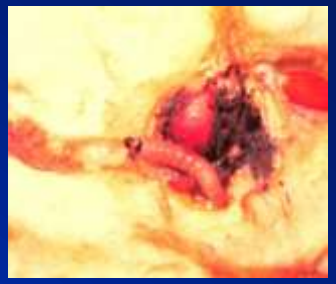
Commercial Apple Production in Kentucky

- 6.9 million lbs in 2008
- Up > 17X from 2007
- Avg. price $0.54 per lb
- Down $0.022 per lb from 2007
- Total value $3.73 million in 2008
- Weather 2007 (Easter freeze)

Apple Insect Pests



Codling Moth

Plum Curculio

Apple Maggot

Apple Insect Pests

Tarnished Plant Bug

Redbanded Leafroller

Oriental Fruit Moth

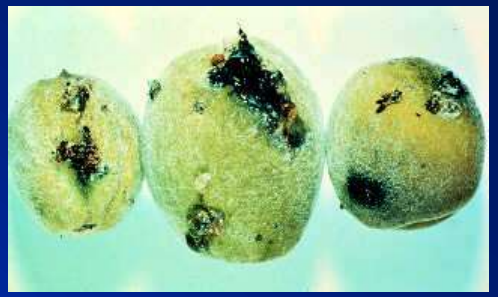
Rosy Apple Aphid

Commercial Peach Production in Kentucky

- 1,600 tons in 2008
- Up 80X from 2007
- Avg. price $1,630/ton
- Down $930 per ton from 2007
- Total value $2,608,000 in 2008
- Weather 2007 (Easter freeze)

Peach Insect Pests

Peachtree Borer



Oriental Fruit Moth

Plum Curculio

Peach Insect Pests

Tarnished Plant Bug

Stink bugs

Catfacing injury

Green Peach Aphid

Rosy Apple Aphid

Japanese Beetle

Blackberry Pest Insects

Thrips

Spider Mites

Green and Brown
Stink Bugs

Japanese Beetle

Strawberry Weevil

Red Necked
Cane Borer

Raspberry
Crown Borer

Sap beetle

Grape Insect Pests

Japanese Beetle

Green June Beetle

Grape Insect Pests

Grape Phylloxera

Grape Root Borer

Grape Insect Pests

Grape Berry Moth

Beneficial Insects

Blackberry Beneficial Insects

Assassin Bug

Damsel Bug

Minute Pirate Bug

Soldier Beetle

Syrphid Fly

Tachinid Fly

Trichogramma wasp

Minute Pirate Bug (*Orius insidiosus*)

Adult

Nymph

Predatory Mirids

Deraeocoris nebulosis

Deraeocoris nitenatus

Syrphid Fly (*Eupeodes americanus*)

Adult

Egg

Larva

Green Lacewing

Egg, larva and adult

Lady Beetles

Managing Insect Pests

Integrated Pest Management (IPM) of Insects, Mites, and Diseases

IPM is a systematic way to use multiple techniques to manage orchard costs, avoid economic damage, and minimize environmental damage. It includes the use of cultural and mechanical practices to prevent pest outbreaks, biological control to encourage the pest's natural enemies to survive and attack pests; and selective use of chemical control when cultural and biological controls are inadequate (only OMRI approved chemicals for organic production).

Scouting

- Time consuming
- Obtain very accurate information regarding pests present, stages, damage

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Disease and Insect Control Programs for Homegrown Fruit in Kentucky Including Organic Alternatives

R.E. Durham, J.G. Strang, Horticulture; J.R. Hartman, Plant Pathology; R. Bessin, Entomology

Questions???