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**Part 1: Diseases of Vegetables**  
**J. Danny Gay**  
Extension Plant Pathologist  
Adapted to PowerPoint by  
George Boyhan  
Extension Horticulturist

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- Learning Objectives**
- ← General vegetable diseases
  - ← Specific diseases of vegetables
  - ← General insects of vegetables
  - ← Insect pests of specific vegetables

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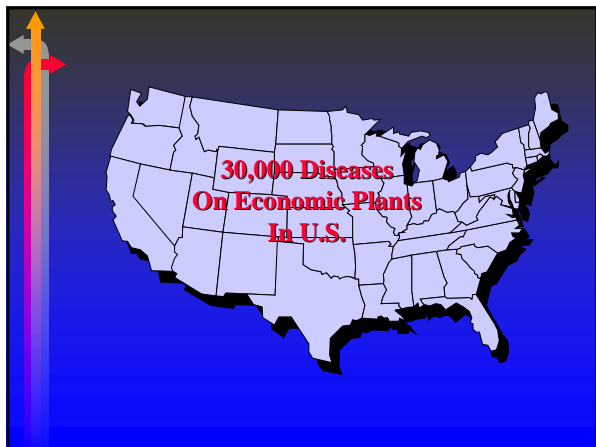
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**CAUSES OF PLANT DISEASES**

- ← Unfavorable Growing Conditions.
- ← Bacteria
- ← Fungi
- ← Viruses
- ← Nematodes

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**ENVIRONMENT**

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**CAUSAL AGENT**

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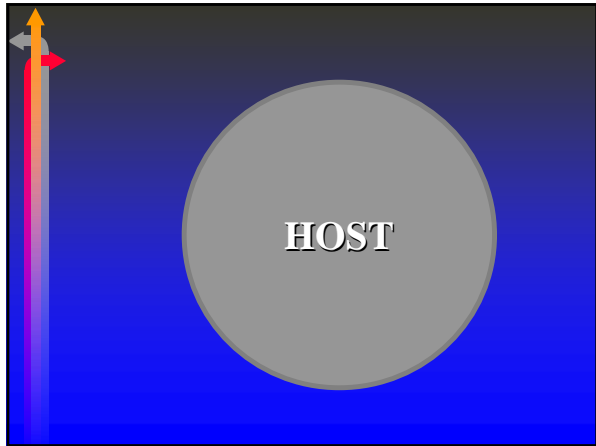
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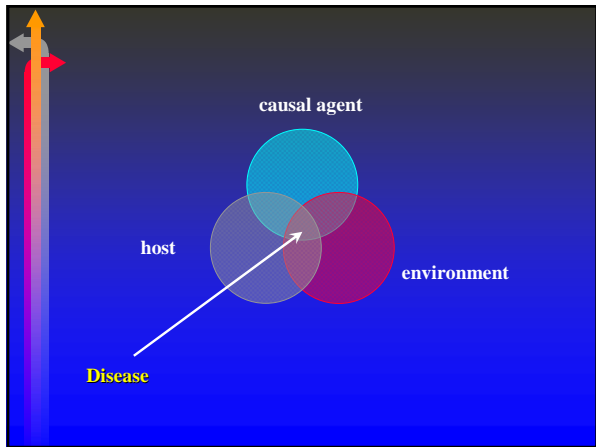
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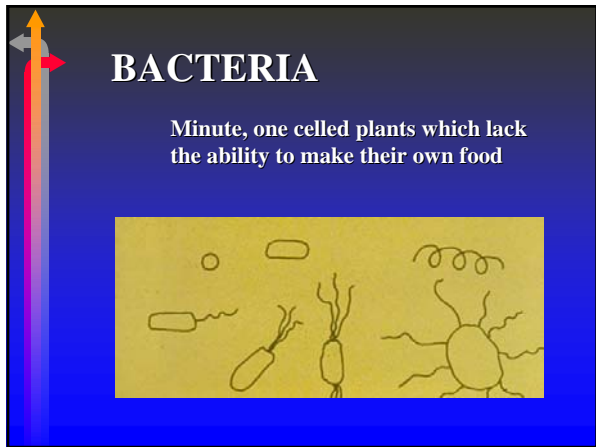
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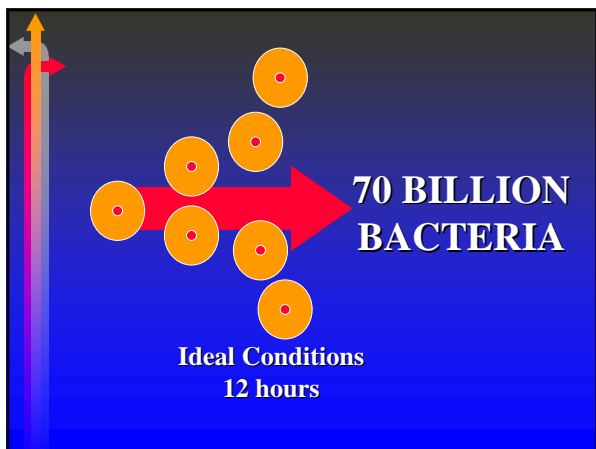
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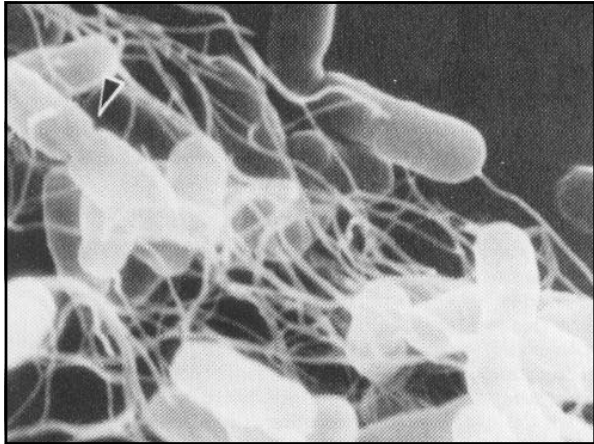
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**Bacterial Canker**

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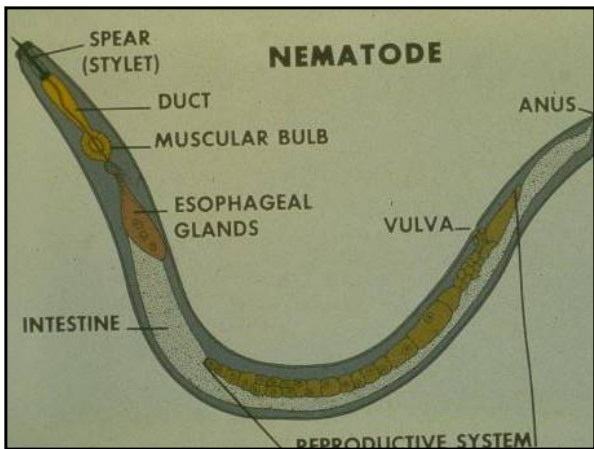
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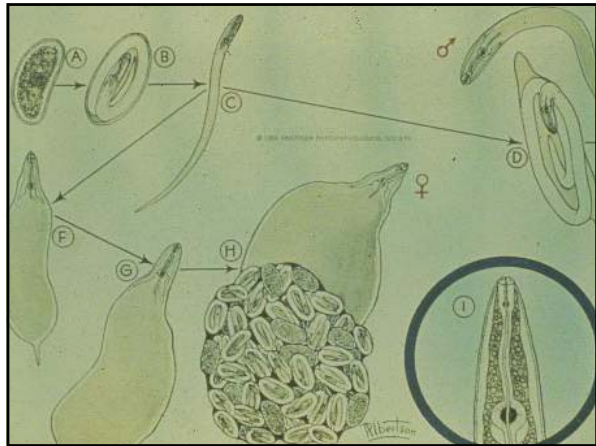
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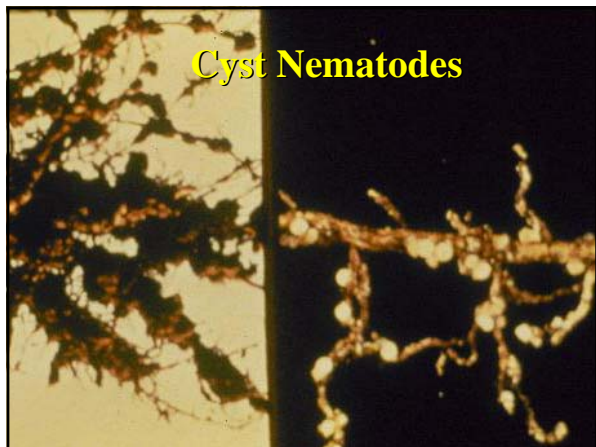
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**VIRUSES**

Complex molecules that infect, multiply, mutate, and otherwise act like living organisms while living in plant cells



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**Watermelon Mosaic Virus**



Alton N. Sparks, Jr., The University of Georgia  
www.insectimages.org UGA1305023

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**Turnip Mosaic Virus**



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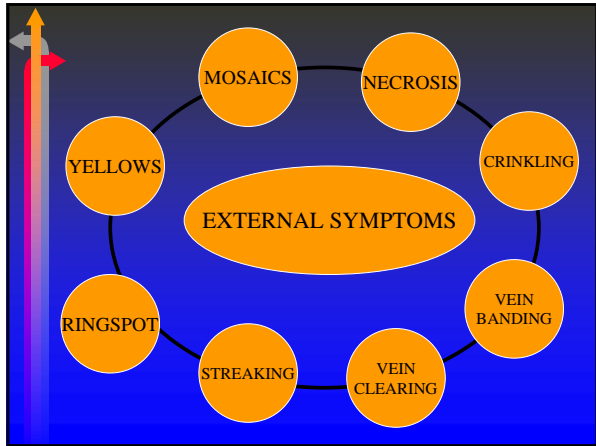
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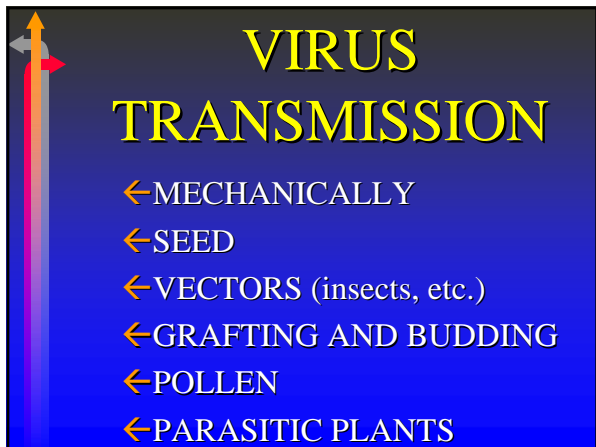
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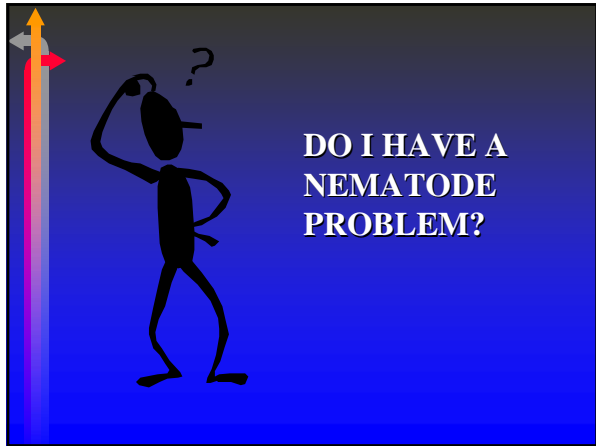
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**DO I HAVE A  
NEMATODE  
PROBLEM?**

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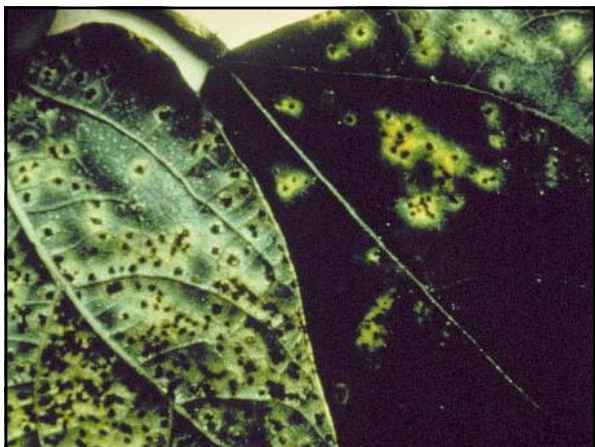
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**Bean Rust**

Sulfur  
Daconil 2787

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**Stem Anthracnose**

Symptoms

Leaves  
Stems  
Pods



**Brick Red  
Blotches**

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**Anthracnose  
Control**

**Western Grown Seed  
Rotation**

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**Early Blight**  
**Daconil 2787**  
**Maneb + Zinc**

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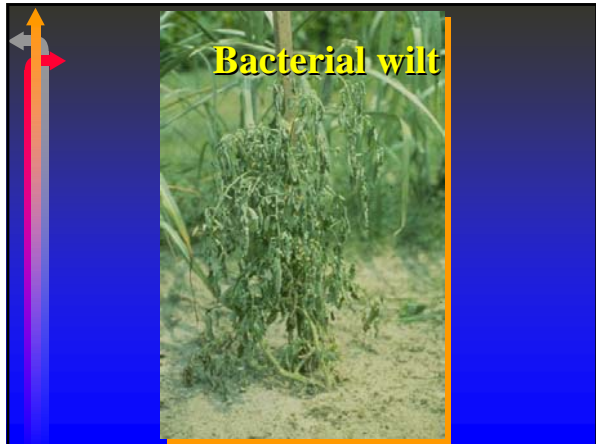
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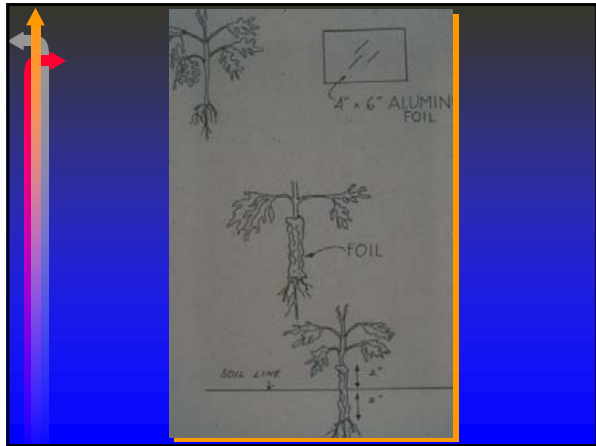
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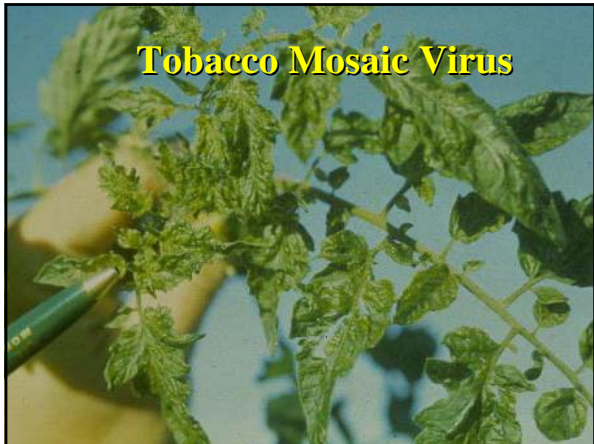
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**Target-spot**

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**Belly-rot**

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**Bacterial Wilt**

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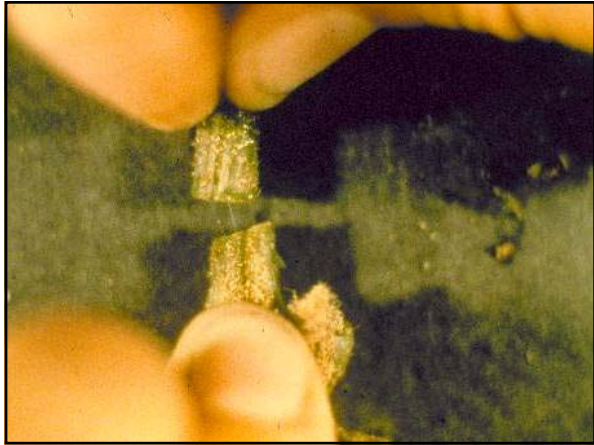
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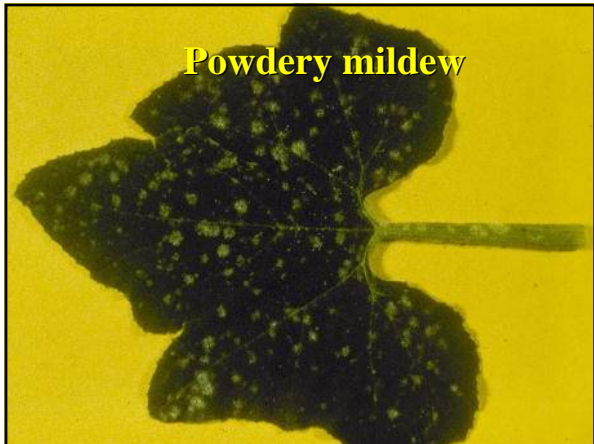
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**Powdery mildew**

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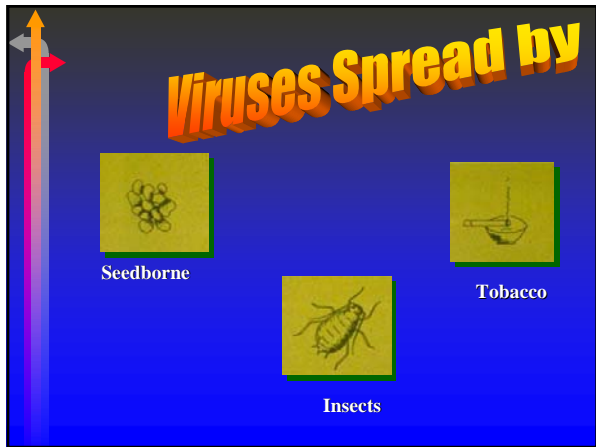
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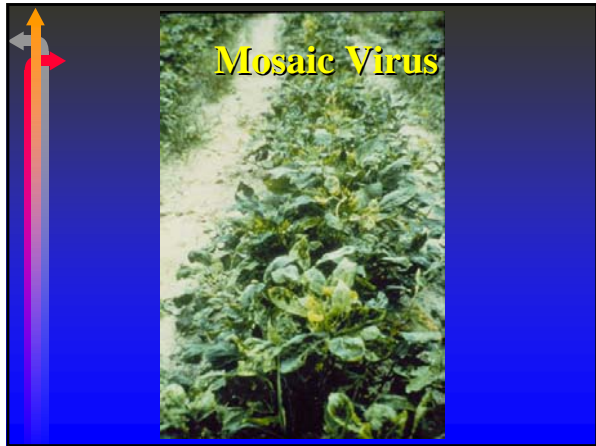
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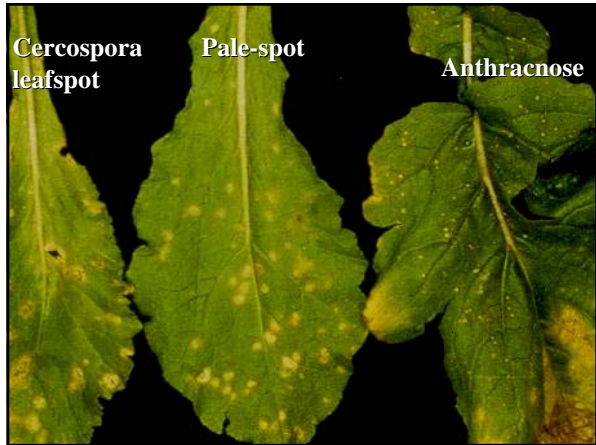
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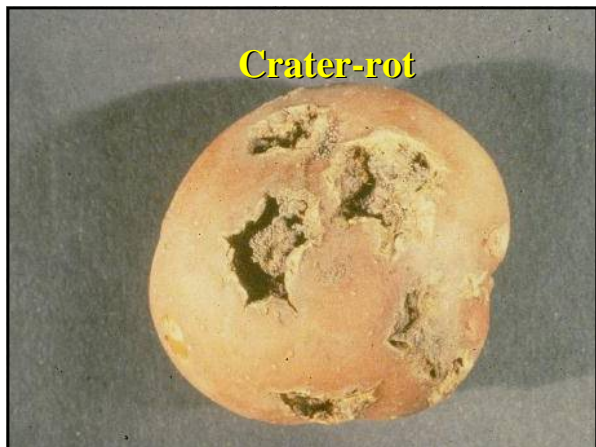
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## Part 2: Vegetable Insects

Burton R. Evans

Extension Entomologist

Adapted to PowerPoint

George E. Boyhan

Extension

Horticulturist

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## Preventive Insecticide Treatments

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**Extension  
Publications**


 The University of Georgia  
 Cooperative Extension Service  
*College of Agricultural and Environmental Sciences*

**2005 Georgia  
 Pest Management  
 Handbook**


*Homeowner  
 Edition*

Copies are available at \$15.00 each. Please make check or money order payable to the UNIVERSITY OF GEORGIA and send to:  
 Agricultural Business Office  
 Room 215 - Center Hall  
 The University of Georgia  
 Athens, GA 30602.

Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
(Need a street address - UPS will not deliver to Post Office Box)  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

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**Pests**

- ← **Damage**
- ← **Identification**
- ← **Control**

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**General Pests**

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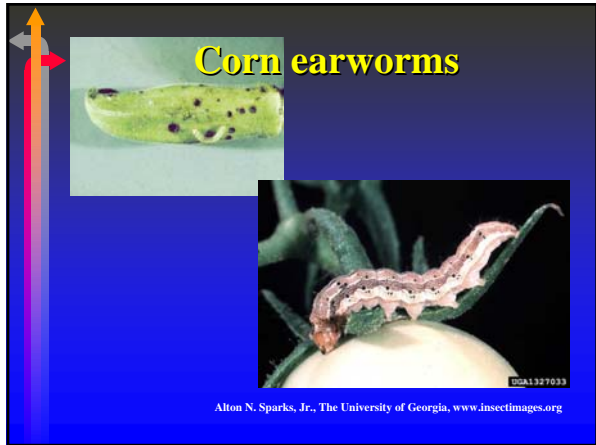
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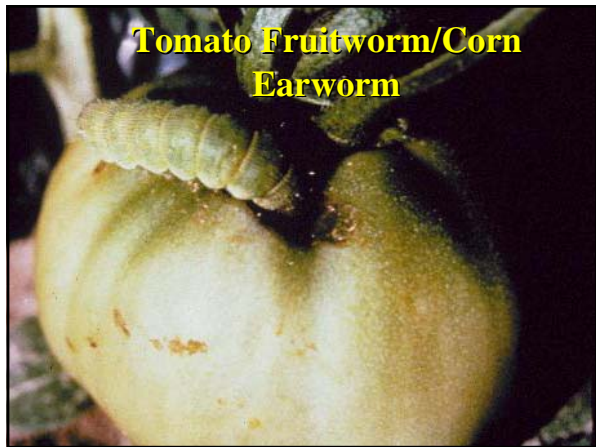
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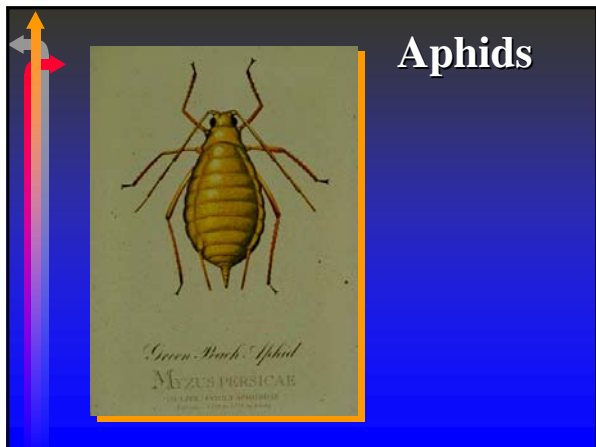
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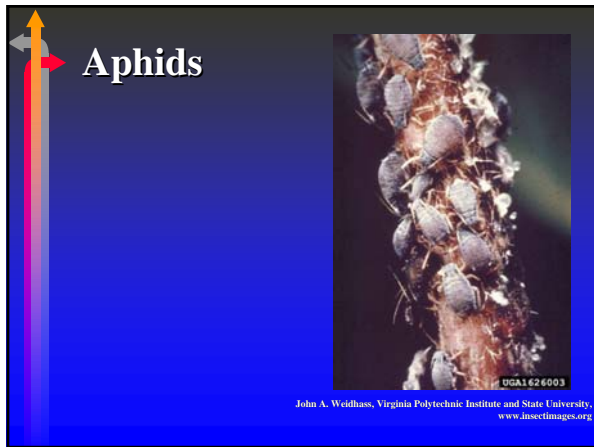
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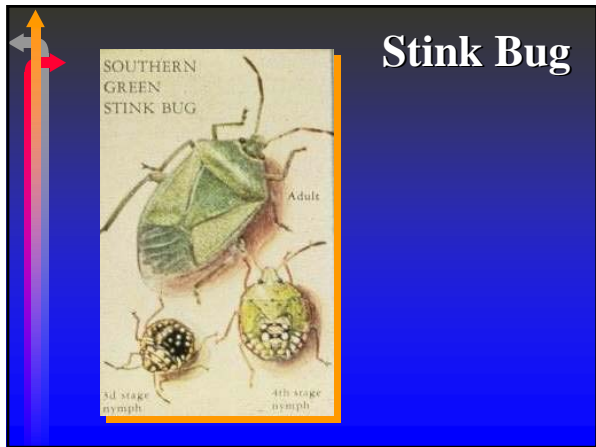
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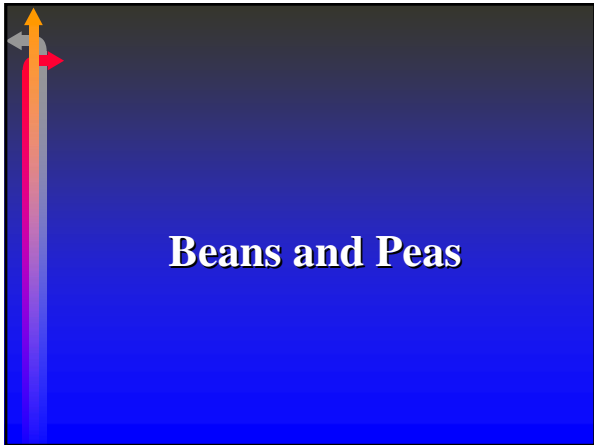
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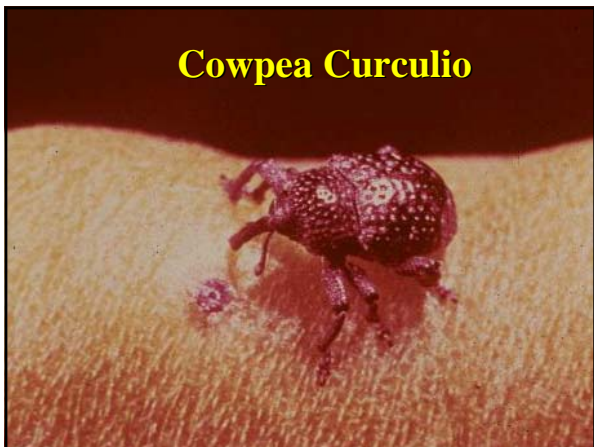
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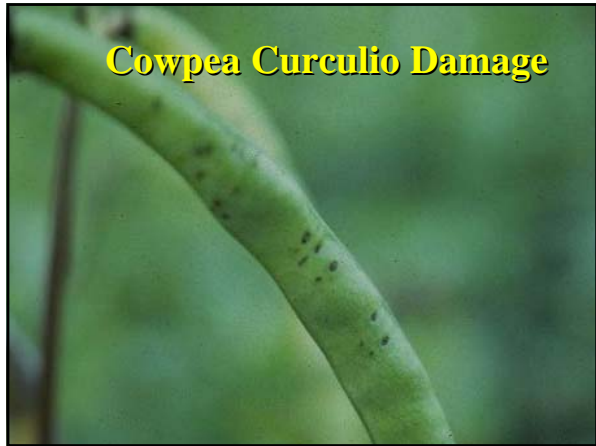
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**Mexican Bean  
Beetles**

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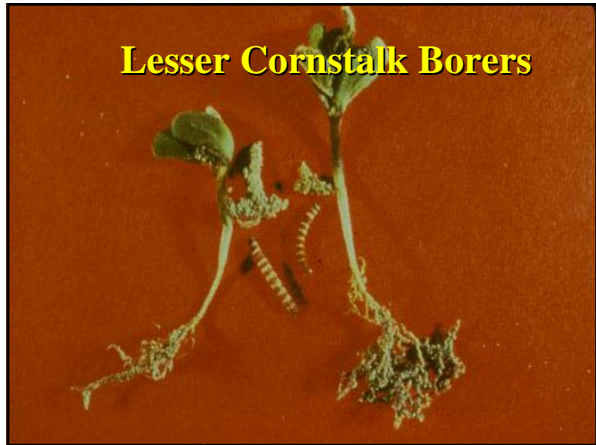
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**Lesser Cornstalk Borers**

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**Thrips**

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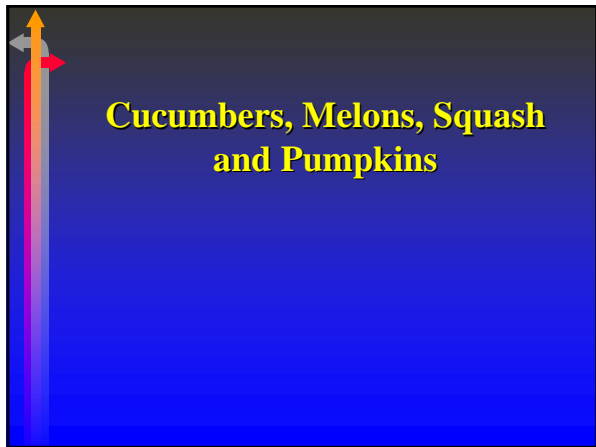
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**Squash bug**

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**Squash Vine Borer**

Clemson University - USDA Cooperative Extension Slide Series,  
[www.insectimages.org](http://www.insectimages.org)

UGA1236147

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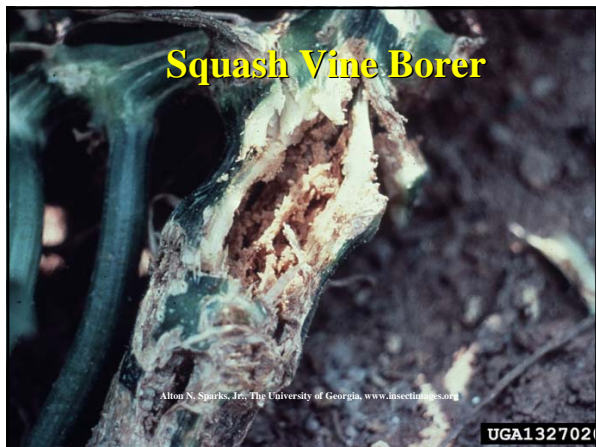
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**Squash Vine Borer**

Alton N. Sparks, Jr., The University of Georgia, [www.insectimages.org](http://www.insectimages.org)

UGA132702

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# Cabbage, Collards, Broccoli, and Turnips

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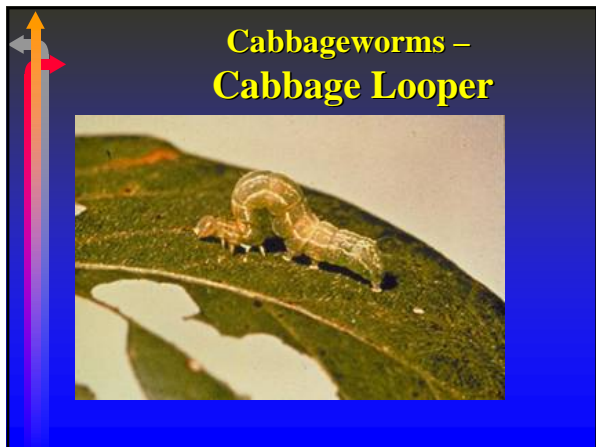
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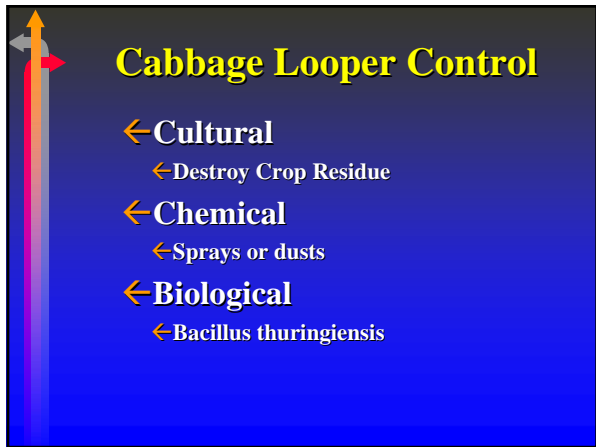
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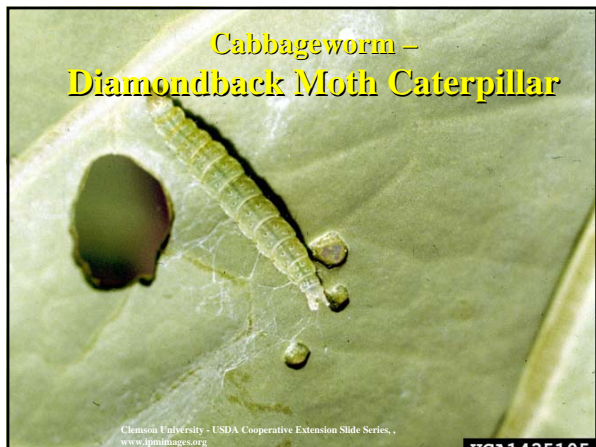
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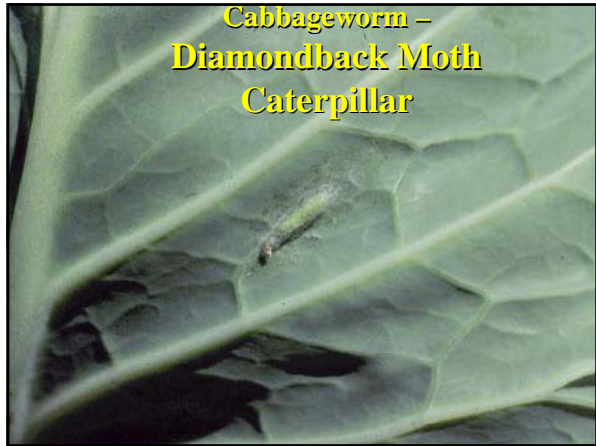
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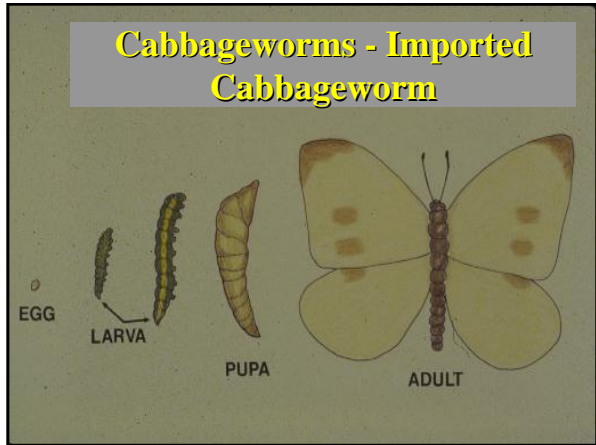
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European corn borer

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European corn borer

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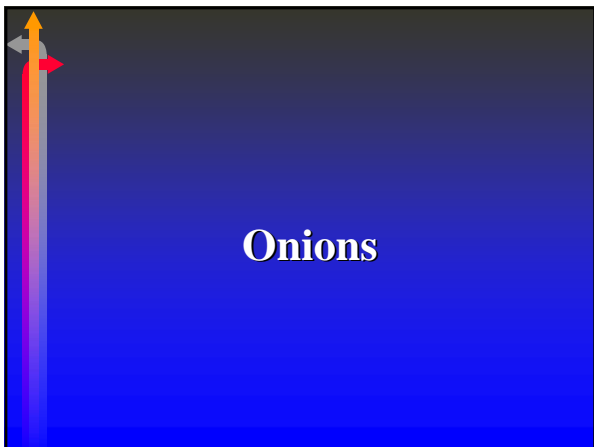
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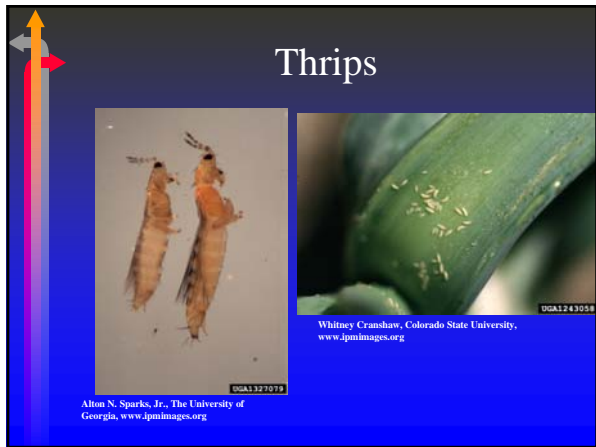
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Potatoes  
Irish and Sweet

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Colorado Potato Beetle



The left image shows a Colorado potato beetle with its characteristic black and white stripes on its back, resting on a green leaf. The right image shows a cluster of small, yellowish eggs attached to a leaf stem, with several adult beetles nearby.

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Leafhopper



The illustration shows a leafhopper with a yellow and black body and long, thin legs. Below the illustration, the text reads: "White Leafhopper", "EMPOASCA PAIRAE", "CHARID. FAMILY: CICADELLIDAE", and "Linn. spec. Pl. nord. Voy.".

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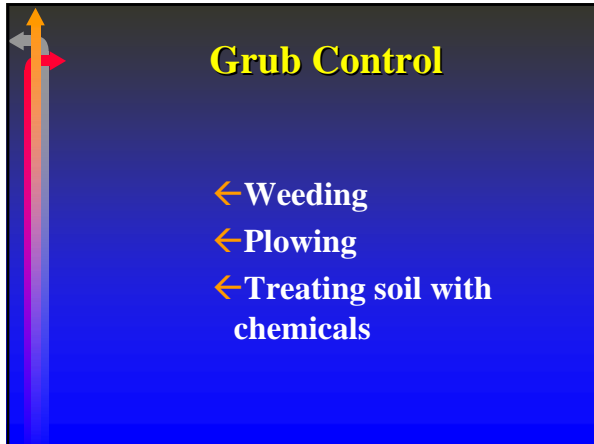
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**Grub Control**

- ← Weeding
- ← Plowing
- ← Treating soil with chemicals

This slide features a blue background with a vertical color gradient bar on the left side. The title 'Grub Control' is in yellow. Three bullet points, each with a yellow arrow pointing left, list 'Weeding', 'Plowing', and 'Treating soil with chemicals'.

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**Wireworm**



Steve L. Brown, The University of Georgia, www.insectimages.org UGA1432025

This slide has a blue background with a vertical color gradient bar on the left. The title 'Wireworm' is in yellow. Below the title is a photograph of several wireworms in soil. At the bottom left, there is a small text credit: 'Steve L. Brown, The University of Georgia, www.insectimages.org'. At the bottom right, there is a small black box with the text 'UGA1432025'.

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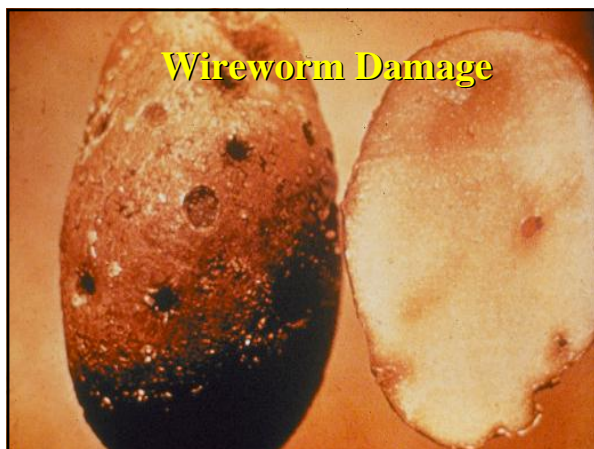
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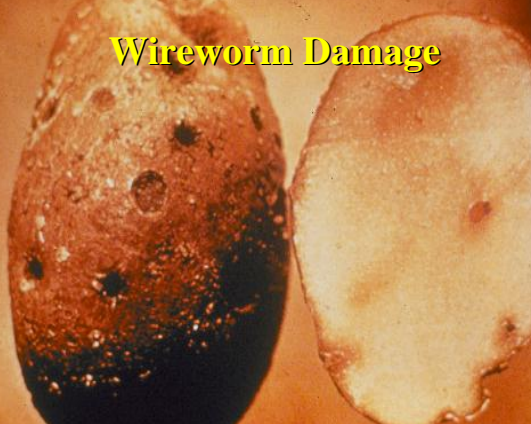
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**Wireworm Damage**



This slide features a photograph of two potatoes. The potato on the left is whole and heavily damaged, appearing dark and shriveled. The potato on the right is sliced in half, revealing a large, irregular hole in the center of the tuber. The title 'Wireworm Damage' is in yellow at the top of the image.

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## Tomatoes, Eggplants And Peppers

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