

(revision date:6/3/2014)

## ***Cucumber, Pumpkin, Squash: Verticillium wilt***

*Use Integrated Pest Management (IPM) for successful plant problem management.*

### ***Biology***

Verticillium wilt is caused by a fungus which can persist in the soil for many years. It has a broad host range, including many vegetables (potato and tomato are favored hosts), woody and herbaceous ornamentals, fruit trees, and weeds. Typically, the fungus attacks the roots and moves throughout the plant via the vascular system. Symptoms may not be noticed until plants are stressed. Leaves wilt and develop yellow, V-shaped areas along the margins. Affected leaves die. The wilt progresses upward through the plant and may kill entire vines. Discoloration of the vascular system is noticeable when cuts are made into stems near the base of the plant. Cool soil temperatures favor disease development.

### ***Management Options***

#### **Non-Chemical Management**

- ~ Rotate crops. Do not follow potato and tomato with squash or other wilt-susceptible plants in crop rotations.
- ~ When possible, delay planting until the soil is warm.
- ~ Clean up plant debris and destroy or discard (do not compost) diseased materials.
- ~ Resistant cucumber and squash varieties are not available.

*Select non-chemical management options as your first choice!*

#### **Chemical Management**

***IMPORTANT: Visit Home and Garden Fact Sheets for more information on using pesticides***

None recommended

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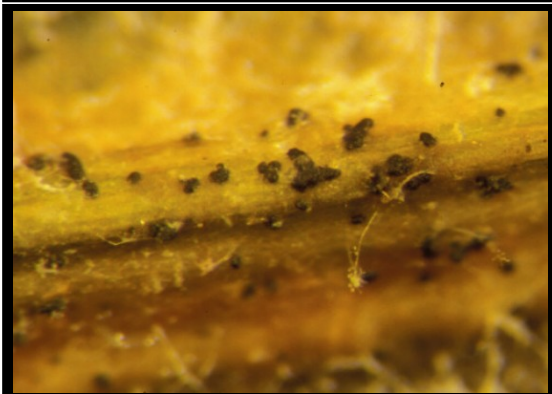
**Images**



~ Caption: Verticillium wilt on squash  
~ Photo by: R.S. Byther



~ Caption: Verticillium wilt on pumpkin leaves  
~ Photo by: D.A. Inglis



~ Caption: Verticillium wilt sclerotia  
~ Photo by: D.A. Inglis



~ *Caption: Vascular discoloration from  
Verticillium wilt on impatiens*  
~ *Photo by: R.S. Byther*