

### **Black Rot**



**Daniel Molitor** 

Morningagclips.com

- Fungal infection of grapes caused by the species Guignardia bidwellii
- Affects grapes during hot and humid weather
- Presents as round orange/ brown lesions with small black specks on leaves and grapes
- Infected grapes shrivel and turn into "mummies" capable of spreading infection via fungal spores released with rainfall
- Several commercial pesticides available for controlling this disease



Turner Sutton, NCSU

### **Phomopsis**

- vine.
- soft and shriveled.

# Common Diseases in Lake Erie Vineyards

#### **Downy Mildew**



Penn State Extension

- Appear first on the underside of leaves as a blueish grey mold; yellow spots present on upper side of leaf
- Especially common in cooler climates with high humidity
- Infected plant material should be removed and disposed of in order to prevent spread of disease

Phomopsis is a fungal infection that initially presents as small, black, elliptical lesions and can occur on any green portion of the

Infected fruit will turn brown and become

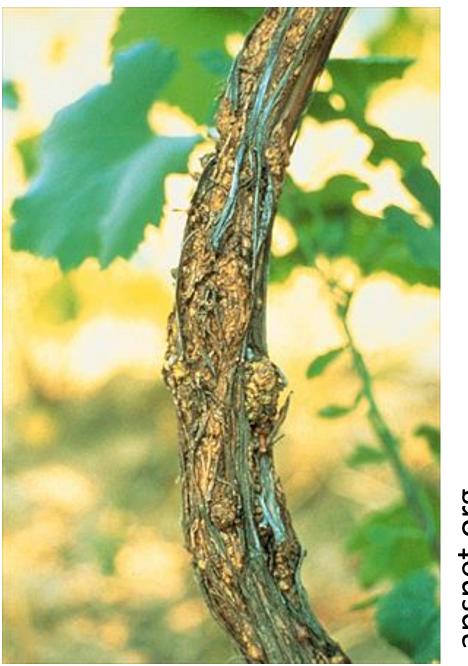
Dormant pruning and disposal of infected plant tissues can greatly reduce the spread of this pathogen. Canopy management aids in reduction of moisture among leaves, preventing the spread of phomopsis.

• Many fungicides effective at fighting black rot are also effective in treating phomopsis.



Damon Smith, Oklahoma State University





- Crown gall is identified based on the presence of overgrowths appearing as galls on the vines or canes of grape plants. Often appear fleshy and detachable.
- Agrobacterium tumefaciens is the bacteria known to cause this disease.
- Plants injured by mechanical stress or frost are most susceptible to contracting crown gall as lesions provide an opportunity for bacteria to enter the plant.

## **Botrytis (Bunch Rot)**

- Botrytis cinerea is a necrotrophic fungus that causes dull green spots on leaves that turn red as the tissue dies. Infected berries will have a grey sporulating mold on their surfaces.
- Botrytis symptoms are usually most severe in plants with very tight berry clusters.
- Dormant pruning and disposal of infected plant tissues can greatly reduce the spread of this pathogen. Canopy management aids in reduction of moisture among leaves, preventing the spread of botrytis.

