

# Important Pests and Diseases of Pumpkin in Ohio



C.A. Wyenandt and R.M. Riedel, Dept. of Plant Pathology

C. Welty, Dept. of Entomology

B. Precheur, Dept. of Horticulture and Crop Science

J. Jasinski, Ohio State University Extension

The Ohio State University

All photos copyright OSUE@2003

except Yellow Vine and Pale-striped flea beetle, used with permission.



# Important Wilt Diseases of Pumpkin



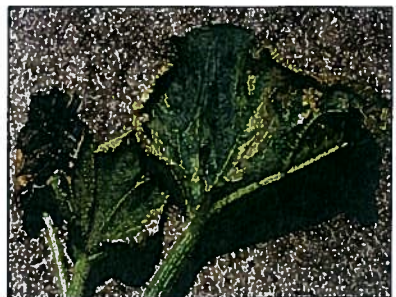
Yellow Vine of pumpkin with symptoms on plant (left) and discoloration of stem tissue (center) and vector of disease, the squash bug (right), the adults (dark) and nymphs (light).



Phytophthora foliar blight and wilt symptoms of entire plant (left,) causing death of vines (center) and fruit rot of mature pumpkin (right).



Bacterial wilt symptoms on plant in field (left), and upright petiole symptoms (center) typical leaf scorch symptoms on infected leaves (right).



Bacterial wilt symptoms on infected stem (left), and on young leaf (center) and typical leaf scorch symptoms on young infected leaves (right).



# Important Foliar Diseases of Pumpkin



Anthracnose of pumpkin. Symptoms on upper leaf surface (left), on veins of underside of leaf (center) and lesions on mature fruit (right).



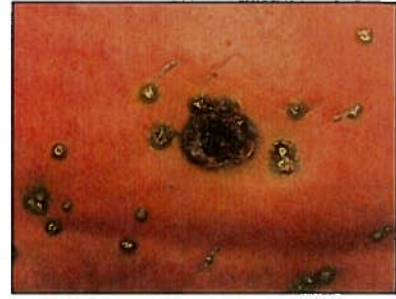
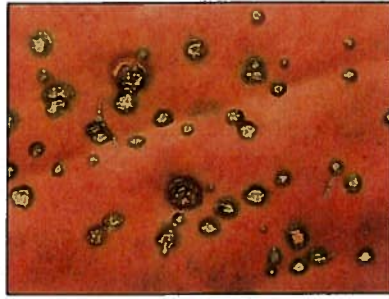
Angular leaf spot of pumpkin. Typical symptoms (left) with shotholes developing (center) and with chlorotic halos around lesions (right).



Virus symptoms on young plant ( top left and center) and on expanding pumpkin leaf (top right and bottom left) and 'bumpy' pumpkin fruit (bottom center) and mosaic symptoms on fruit (bottom right).



# Important Fruit Rot Diseases of Pumpkin



Bacterial spot of pumpkin, symptoms on fruit (left) lesions developing on fruit (center and right).



Fusarium fruit rot of pumpkin (left), large expanded lesions (center) and small lesions (right).



White mold causing cavity decay on mature fruit (left and center) with black sclerotia developing on infected fruit (right).



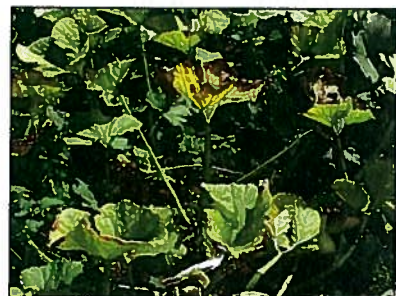
Choanephora or wet rot of pumpkin on infected flower (left), sporulating on immature pumpkin fruit (center) and on detached infected fruit (right).



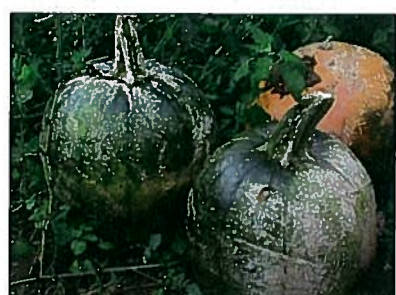
# Important Foliar and Fruit Diseases of Pumpkin



Powdery mildew on upper leaf surface (left), pustules on upper leaf surface (center) and on stem of fruit (right).



Downy mildew of pumpkin. Symptoms on upper leaf surface (left), and olive grey lesions underside of leaf (center) and typical symptoms in field on (right).



Microdochium (or Plectosporium) blight, also called White Speck, on petiole (left) and stem and petiole (center) and on green and orange fruit (right).



# Important Pests of Pumpkin



Squash bug colony (left and center) and squash bug eggs on upper leaf surface (right).



Adult Striped cucumber beetle (left) and Spotted cucumber beetle (center) with beetle feeding damage on handle of fruit (right).



Adult Pale-striped flea beetle (left) and Northern corn rootworm (center) and Western corn rootworm (right).



Adult Squash vine borer (left) and larva damage to stem (center) and uniform yellowing of leaf caused by stem feeding (right).



## Important Pests of Pumpkin



Seedcorn maggot damage to seed (left) and spider mite damage to underside of leaf (center) and European corn borer damage to stem of fruit (right).

## Vertebrate Damage to Pumpkin



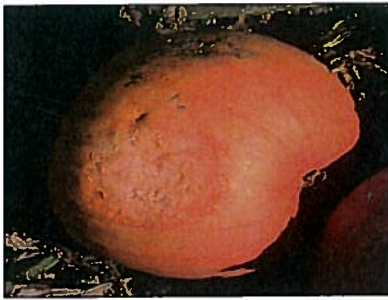
Bird damage on developing fruit (left) and maturing green fruit (center) and deer feeding damage on immature fruit (right).



Mouse feeding damage (left and center) and mouse feces on surface of fruit (right).



## Miscellaneous Problems of Pumpkin



Sunscald injury on mature fruit (left) and sunscald injury with secondary infection (center) and late season beetle feeding injury on mature fruit (right).



Poor pollination causing death of young fruit (left) and hail damage to leaf (center) and maturing fruit (right).



Magnesium deficiency (left), genetic silvering of leaves (center) and leaf rubbing (right).



Bleaching of leaves caused by Command™ injury (left).