



Extension

UNIVERSITY OF WISCONSIN-MADISON

Provided to you by:

Vegetable Disease Quick Reference

Brian Hudelson, UW-Madison Plant Pathology

UW Plant Disease Facts



Septoria Leaf Spot and Early Blight

Host: Tomato

Pathogens: *Septoria lycopersicia* and *Alternaria solani*

Signs/Symptoms: Spotting and eventual total collapse of leaves working from the bottom of the plant up

For more information see: UW Garden Facts [D0100/D0046](#)



Late Blight

Hosts: Tomato, potato

Pathogen: *Phytophthora infestans*

Signs/Symptoms: Water-soaked spots on leaves, leathery areas on tomato fruits, rapid plant death

For more information see: UW Garden Facts [D0068](#)



Blossom End Rot

Host: Tomato, pepper, eggplant, cucumber, squash

Cause: Calcium deficiency

Signs/Symptoms: Decayed areas on the bottom sides of vegetable fruits

For more information see: UW Garden Facts [D0022](#)



Powdery Mildew

Hosts: Any vegetable, particularly vine crops, peas

Pathogens: Miscellaneous powdery mildew fungi

Signs/Symptoms: Powdery white growth on leaves

For more information see: UW Garden Facts [D0086](#)



Common Corn Smut

Hosts: Corn

Pathogen: *Ustilago maydis*

Signs/Symptoms: Pasty white masses on corn ears eventually decomposing into a brown powder

For more information see: UW Garden Facts [D0031](#)



Black Rot

Hosts: Crucifers (e.g., cabbage, broccoli, cauliflower)

Pathogen: *Xanthomonas campestris* pv. *campestris*

Signs/Symptoms: V-shaped yellow/dead areas on leaves progressing into plant deterioration and death

For more information see: UW Garden Facts [D0019](#)



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Potato Scab

Hosts: Potato, carrot, beet, other root crops

Pathogen: *Streptomyces scabies*

Signs/Symptoms: Brown, rough, scab-like areas on tubers and roots

For more information see: UW Garden Facts [D0083](#)



Verticillium Wilt

Host: Tomato, pepper, eggplant, potato, vine crops

Pathogen: *Verticillium* spp.

Signs/Symptoms: Leaf yellowing and wilting of plants followed by eventual plant death

For more information see: UW Garden Facts [D0122](#)



Aster Yellows

Hosts: Carrot

Pathogens: Aster yellows phytoplasma

Signs/Symptoms: Yellow/orange/purple leaves, stunted roots with tufts of white hairy roots

For more information see: UW Garden Facts [D0007](#)



Bacterial Wilt

Hosts: Vine crops

Pathogen: *Erwinia tracheiphila*

Signs/Symptoms: Sectional wilting and eventual death of plants after cucumber beetle feeding

For more information see: UW Garden Facts [D0014](#)



Basil Downy Mildew

Host: Basil

Pathogen: *Peronospora belbahrii*

Signs/Symptoms: Downward-cupped, yellow leaves with purple-gray fuzz on leaf undersurfaces

For more information see: UW Garden Facts [D0015](#)

For more information on vegetable diseases: See <https://pddc.wisc.edu/> or contact the University of Wisconsin Plant Disease Diagnostics Clinic (PDDC) at (608) 262-2863 or pddc@wisc.edu.