Back to IPM scouting in herbaceous perennials.

Bacterial diseases Bacterial leaf spot

Pathogen: *Pseudomonas* spp. and *Xanthomonas* spp.

Hosts include: Astilbe, Chrysanthemum, Delphinium, Echinacea, Heuchera, Hypericum and Rudbeckia.

Symptoms: Disease symptoms include water-soaked lesions on foliage that darken with age. Lesions may be bordered by the leaf venation.



Xanthomonas leaf spot of ivy. Note the water-soaked halos around leaf spots.

Spread: Bacteria on the plant surface are easily spread to nearby plants by splashing water from rain and irrigation. Asymptomatic plants can serve as a source of inoculum.

Management: Bacterial pathogens can survive and reproduce on the surface of

Bacterial leaf spot - continued

Bacterial leaf spots on Heuchera.



asymptomatic plant tissues. Disease symptoms develop once the pathogen reaches high population levels on the plant surface. Sanitation is especially important. Workers should wash their hands after handling diseased plants. Foliage should not be handled when it is wet. Symptomatic plants should be destroyed. Avoid overhead irrigation or time irrigation to minimize leaf wetness. Succulent tissue is especially susceptible to infection. Most fungicides are not effective against bacteria. Copper-based products are helpful in limiting populations of surface-borne populations of bacterial pathogens.