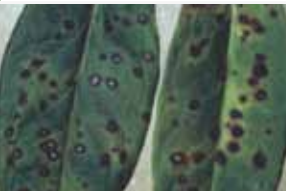


THIS MONTH IN DISEASES

phlox

By A.R. Chase and Margery Daughtrey

| | Disease | Pathogen | Stage of crop | Best cultural controls | Best product controls, based mainly on Chase Research trials |
|---|-----------------------------|---|--|--|--|
|  | Alternaria leaf spot | <i>Alternaria</i> sp. | From plugs to landscape | Use pathogen-free seed and avoid overhead irrigation. | Chipco 26019, Daconil Ultrex (before flowers), Medallion and strobilurins (like Heritage) |
|  | Anthracnose | <i>Colletotrichum</i> spp. | All stages | Use healthy plugs; minimize leaf wetness | Insignia (or Pageant or Heritage), Phyton 27, Spectro |
|  | Cercospora leaf spot | <i>Passalora omphacodes</i> (previously <i>Cercospora omphacodes</i>) | Usually later in crop production when canopies are tight | Avoid leaf wetting, scout frequently and remove badly spotted plants from the growing area ASAP. | Chlorothalonil (avoid using on open flowers), strobilurins (like Compass O, Heritage and Pageant), Medallion (or Palladium) and thiophanate-methyl (like 3336) |
|  | Downy mildew | <i>Peronospora phlogina</i> | Anytime | Do not irrigate overnight; space plants and scout regularly. | Phosphonates (like Aliette), Stature and strobilurins (like Heritage and Pageant) |
|  | Foliar nematode | <i>Aphelenchoides</i> spp. | All stages, but most common late in crop or in landscape | Use pathogen-free plants and discard symptomatic plants when found. | None known to be effective. |
|  | Powdery mildew | <i>Golovinomyces cichoracearum</i> (previously <i>Erysiphe cichoracearum</i>) and others | Found late during finishing and in the landscape | Scout regularly, maintain spacing and try to grow resistant cultivars. | Sterol inhibitors (like Eagle/Hoist) and strobilurins (like Compass O, Cygnus and Pageant) |
|  | Septoria leaf spot | <i>Septoria</i> spp. | Usually late in production | Irrigate when leaves will dry quickly. | Chlorothalonil, thiophanate-methyl, strobilurins and Palladium are effective on other crops. |
|  | Tobacco rattle | <i>Tobacco rattle virus</i> (TRV) | Found late during finishing and in the landscape | Scout regularly and remove plants with symptoms. | None known to be effective. Control soil-borne nematodes. |

In this issue, we present a summary of diseases that occur in phlox. Remember: Product controls are based on research trials and do not reflect an endorsement of any sort.

— A.R. Chase is plant pathologist at Chase Agricultural Consulting, LLC and can be reached at archase@chaseresearch.net. Margery L. Daughtrey is senior extension associate at Cornell University's Long Island Horticultural Research & Extension Center and can be reached at mld9@cornell.edu.