







THIS MONTH IN DISEASES

# primula

By A.R. Chase and Margery Daughtrey

	Disease	Pathogen	Stage of crop	Best cultural controls	Best product controls, based mainly on Chase Research trials
	<b>Aster yellows</b>	<i>Candidatus Phytoplasma asteris</i>	Near maturity	Manage weed hosts and control aster leafhopper vector.	None are known
	<b>Botrytis stem rot</b>	<i>Botrytis cinerea</i>	Following transplant	Avoid rough handling at transplant; control fungus gnats and do not overwater.	Chipco 26019, Decree, fludioxonil (Medallion or Palladium), Daconil (before flowering) or Pageant
	<b>Calcium deficiency</b>	N/A	Mid-production	Move air (using fans) to increase transpiration, have adequate calcium in growing medium.	Calcium supplements or calcium-containing fertilizers
	<b>Pseudomonas leaf spot</b>	<i>Pseudomonas</i> sp.	Plugs and finishing in spring mainly	Avoid overhead irrigation.	Copper bactericides alternated with Cease or KleenGrow
	<b>Pythium root rot</b>	<i>Pythium irregulare</i>	Anytime in production or the landscape	Avoid using potting medium with poor drainage and don't overwater or over-fertilize.	Subdue MAXX (resistance is possible), Segway and etridiazole (like Banrot, Truban and Terrazole)
	<b>Xanthomonas leaf spot</b>	<i>Xanthomonas</i> sp.	All stages of production	Use pathogen-free seeds and avoid overhead irrigation.	Copper (like Camelot, CuPro and Phytan 27), Cease and KleenGrow

**In this issue, we present a summary of diseases that occur in primula. 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](mailto: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](mailto:mld9@cornell.edu).