

## Powdery Mildew-Resistant Woody Ornamentals

Mary Ann Hansen, Extension Plant Pathologist, Department of Plant Pathology,  
Physiology and Weed Science, Virginia Tech

Powdery mildew is a common fungal disease of many ornamental plant species. Although plants are not often killed by the disease, they may become unsightly when heavy fungal growth develops on leaves and flowers. Controlling the disease on susceptible plants usually requires multiple sprays of an appropriate fungicide. Use of resistant cultivars in new plantings can significantly reduce plant maintenance related to powdery mildew control. Assembled below are lists of species, cultivars, and/or hybrids of some of the more popular woody landscape plants that are reported to have resis-

tance to powdery mildew (Tables 1-5). This information was compiled from several different landscape and field studies in which resistance to powdery mildew was evaluated.\*\* Although the exact level of powdery mildew resistance exhibited by an individual cultivar may vary depending on where the plant is grown, all the plants listed should have moderate to excellent resistance and a reduced need for fungicide sprays. For more information on powdery mildew, refer to VCE Publication 450-603, Powdery Mildew of Ornamental Plants.

**Table 1.** Powdery mildew-resistant dogwood cultivars

Flowering Dogwood ( <i>Cornus florida</i> )	Form	Temple Jewel
Cherokee Brave Sweetwater Red	Gay Head	Trinity Star
Rutger's Hybrids ( <i>Cornus florida</i> x <i>Cornus kousa</i> )	Greensleeves	Triple Crown
Aurora	Hart #3	Weavers Weeping
Celestial	Julian	Wilton
Stellar Pink	Milky Way	Wolf Eyes
Kousa Dogwood ( <i>Cornus kousa</i> )	Milky Way Select	
Angustata	Miss Satomi	
Autumn Rose	Moonbeam	
Benji Fuji	National	
Big Apple	Radiant Rose	
Blue Shadow	Rochester	
China Girl	Snow Flake	
Chinensis Bodnant	Speciosa	
Doubleloon	Summer Majesty	
Emerald Star	Sunsplash	

**Table 2.** Powdery mildew-resistant rose cultivars

Floribundas	Bobby Charlton	Modern Art	Anytime	Singles Better
Class Act	Bride's Dream	Mon Cheri	Beauty Secret	Smoky Mountain
Escapade	Canadian White Star	Nantucket	Black Jade	Sweet Pickins
French Lace	Cary Grant	New Year	Centerpiece	Watercolor
Iceberg	Chablis	Olympiad	Cinderella	Shrub Roses
Intrigue	Dainty Bess	Otto Miller	Cuddles	Alba Meidiland
Koricole	Duet	Pascale	Deep Velvet	Albo Semi-plena
Lavaglut	Electron	Polarstern	Ginny	Blanc Double de
Playboy	Elina	Precious Platinum	Green Ice	Coubert
Playgirl	Elizabeth Taylor	Princess of Monaco	Heartland	Bonica
Regensbery	Elmhurst	Pristine	Jean Kenneally	Frau Dagmar
Rob Roy	Folklore	Red Devil	Jennifer	Hartopp
Sarabande	Helmut Schmidt	Sheer Bliss	Kathy Robinson	Linda Campbell
Sexy Remy	Keepsake	Suffolk	Linville	Pink Meidiland
Simplicity	Konrad Henkel	Sunbright	Loving Touch	Roseaie de l'Hay
Sun Flare	Lady	Tansinnroh	Magic Carrousel	Rugosa Alba
Sunsprite	Lady Rose	Uncle Joe	Mary Bell	Sarah Van Fleet
Traumerei	Lady X	Voo Doo	Minnie Pearl	Scarlet
Grandifloras	Las Vegas	Wimi	Old Glory	Meidiland
Love	Maid of Honor	World Peace	Peacesetter	Topaz Jewel
Prima Donna	Mikado	Miniatures	Puppy Love	Simplex
Sonia	Miss All American	Always a Lady	Queen City	
Hybrid Teas	Beauty	Angel Darling	Red Flush	

**Table 3.** Powdery mildew-resistant lilacs  
(*Syringa* species and hybrids)

<i>S. diversifolia</i>
<i>S. emod</i>
<i>S. henryi</i> 'White Summers'
<i>S. josiflexa</i> 'Anna Amhof'
<i>S. josiflexa</i> 'Royalty'
<i>S. julianae</i>
<i>S. meyeri</i> 'Palibin'
<i>S. microphylla</i>
<i>S. microphylla</i> 'Superba'
<i>S. oblata</i> var. <i>dilatata</i>
<i>S. patula</i> 'Miss Kim'
<i>S. persica</i> (= <i>S. x persica</i> )
<i>S. refexandowii</i>
<i>S. reticulata</i> 'Summer Snow'
<i>S. swegiflexa</i> (= <i>S. x swegiflexa</i> )
<i>S. villosa</i>
<i>S. yunnanensis</i>
<i>S. x prestoniae</i> 'Donald Wyman'
<i>S. x prestoniae</i> 'James McFarlane'
<i>S. x prestoniae</i> 'Minuet'

## Selected References

Dirr, M.A. 1998, Manual of Woody Landscape Plants, 5th ed. Stipes Publishing, Champaign IL. 1187 pp.

**Table 4.** Crape myrtle cultivars tolerant or resistant to powdery mildew

<b>Cultivar</b>	<b>Flower</b>	<b>Twig/Bark/Inner Bark</b>	<b>Fall Color</b>	<b>Form</b>
Acoma	white	purple/brown/lt gray	orange	semi-dwarf
Apalachee	lt lavender	red/gray brown/cinnamon	dull orange	upright lg shrub
Biloxi	pale pink	gray brown/dk brown	yellow to red	tree
Catawba	dk purple	tan/buff	orange-red	globose
Cherokee	bright red	-	-	globose
Comanche	coral pink	brown/gray brown/ gray orange	dk orange to dk purple	sm tree
Hopi	pink	red/gray brown/lt gray	orange-red	shrub
Lipan	med lavender	red purple/gray/green-mottled white	orange	upright shrub
Miami	dk pink	gray brown/gray green/ dk brown	orange to red	tree
Muskogee	lt lavender	med brown	red	sm tree
Natchez	white	dk cinnamon	orange	shrub/sm tree
Osage	pink	red purple/gray brown/ chestnut brown	red	sm tree
Pecos	pink	red/gray/dk brown	maroon	globose shrub
Powhatan	lt lavender	-	-	globose
Seminole	pink	-	-	globose
Sioux	dk pink	dull red/gray brown/ lt gray brown	maroon to red	upright sm tree
Tuscarora	dk coral pink	lt brown	orange-red	sm tree
Tuskegee	dk pink-red	gray/tan	orange-red	broad
Wichita	lt magenta	red purple/gray/ dk mahogany	russet/ mahogany	tree
Yuma	med lavender	red purple/gray/lt gray	yellow to orange	sm tree
Zuni	med lavender	red/gray/lt brown	dk red	semi-dwarf

**Table 5.** Powdery mildew-resistant crabapple cultivars

<b>Cultivar</b>	<b>Bud/Flower Color</b>	<b>Fruit Color</b>	<b>Form</b>
Adirondack	carmine/white	orange-red	sm columnar
Ames White	pink/white	yellow	round
Autumn Glory	red/white	orange-red	upright
Basketong	dk red/lt purple red	dk purple red	tree
Beauty	rose pink/white	dark red	fastigiata
Coral Cascade	coral red/white	coral pink	med weeping
David	pink/white	scarlet	round
Donald Wyman	pink/white	bright red	upright
Gibb's Golden Gage	pink/white	yellow	sm rounded
Golden Raindrops	pink/white	golden yellow	sm rounded
Gwendolyn	pink/pink	red	-
Harvest Gold	white/white	gold	upright
Indian Summer	red/rose red	red	broad/globe
Molten Lava	red/white	red-orange	spread wide/weeping
Mount Arbor Special	carmine/pink	red	-
Naragansett	red/white	cherry red	small rounded
Prariefire	red/dk red	red-purple	rounded
Professor Sprenger	pink/white	yellow-pink	upright-spreading
Purple Prince	carmine/red	bl-purple	rounded
Red Snow	orange-red/pink	bright red	sm arching
Tina	red/white	red	dwarf, low spreading
Wies	pink/pink	dark red-purple	upright

\*\*The information presented in Tables 1-5 was compiled from surveys and field trials conducted in Tennessee, Maryland, and North Carolina between 1990-1996. Information from a 1980 crabapple survey conducted in Pennsylvania is also included.