

Table 2. Powdery mildew disease ratings of 126 deciduous azalea cultivars from two separate evaluations supported by the ARS Research Foundation. The current study (Garden Survey) includes 109 cultivars. A previously published experiment (Field Trial) rated 41 cultivars for mildew symptoms. Twenty four of the field-trialed cultivars were duplicated in the garden study. The table sorts the results from the garden survey alphabetically within two groups, resistant (scores < 2.0) and susceptible (scores ≥ 2.0). Powdery mildew evaluations from other published sources (Previous Ratings) are also shown (R = resistant, MR = moderately resistant, S = susceptible). See footnotes for further details.

Resistant Cultivars	Hybrid Group ^a	Garden Survey Disease Rating ^b	Field Trial Disease Rating ^c	Previous Rating ^d
Annabella	KH/EX	1.3		R ^{4,5}
Arista	Girard	1.0		
Chamois	Leach	1.0		
Chestnut Hill	Graefe	1.0		R ⁵
Cream Puff	Leach	1.0		
Fanny	Ghent	1.1		
Fragrant Star	Briggs		1.0	
Garden Party	Weston		1.0	
Goldflake	KH-Bovee	1.4		R ³ , MR ⁵
Homebush	KH/EX	1.7	2.3	R ⁴
Jane Abbott	Mollis -Abbott		1.6	
Jolie Madame	Boskoop	1.0	2.5	R ⁵
Josephine Klinger	Ghent	1.0		
July Jester	Leach	1.0		
July Joy	Leach	1.0		
June Flame	Rarefind		1.0	
Late Lady	Cummins		1.1	
Lemon Drop	Weston	1.2		
Lollipop	Weston	1.0	1.1	
Magic	Weston		1.1	
Maid of Honor	Leach	1.0		
Melford Lemon	Ilam	1.2		
Millennium	Weston		1.0	
Narcissiflora	Ghent	1.8		R ⁴
Norma	Rustica-F-P	1.2		
Northern Hi-Lights	Lights	1.7	1.8	S ⁵
Parade	Weston	1.0	1.0	
Pink and Sweet	Weston	1.0	1.1	
Pink Fire	Leach	1.0		
Pink Peppermint	Pride	1.0		R ⁴ , MR ⁵
Pink Plush	Leach	1.0		MR ^{4,5}
Pink Puff	Leach	1.0		MR ⁴ , R ⁵
Popsicle	Weston		1.0	
Quentin Metsys	Ghent	1.0		
Red Pom Pom	Girard	1.7		MR ⁵
Snowbird	Weston		1.1	
Soir de Paris	Felix & Dijkhuis	1.0		
Whitethroat	KH/EX	1.1		

Susceptible Cultivars	Hybrid Group ^a	Garden Survey Disease Rating ^b	Field Trial Disease Rating ^c	Previous Rating ^d
Antilope	Felix & Dijkhuis	3.0		R ⁵
Arneson's Gem	Arneson		3.9	
Arneson's Ruby	Arneson		4.4	

Table 2 continued on next page.

Susceptible Cultivars	Hybrid Group ^a	Garden Survey Disease Rating ^b	Field Trial Disease Rating ^c	Previous Rating ^d
Apricot Surprise	Lights	2.0	2.4	
Balls of Fire	KH-Bovee	2.7		R ³ , S ⁵
Balzac	KH/EX	2.4		R ^{3,4}
Beaulieu	KH/EX	4.4		MR ⁵
Better Letter	Girard	3.3		
Brazil	KH/EX	2.8		R ⁴ , S ⁵
Candy Lights	Lights	2.0		
Cannon's Double	KH/EX	4.4	3.4	S ⁵
Cecile	KH/EX	4.4		R ⁴ , S ⁵
Chartreuse	EX-Carlson	2.7		R ³ , MR ⁵
Cheerful Giant	KH-Sorenson		3.7	
Copper Cloud	Ilam	3.0		S ³ , R ⁴ , MR ⁵
Coral Queen	KH-Pride	4.8		R ⁴ , S ⁵
Corringe	KH/EX	4.6		S ⁵
Crimson Tide	Girard	3.1	2.7	MR ⁵
Daviesii	Ghent	4.2		R ⁴ , MR ⁵
Devon	KH/EX	3.8		
Exbury White	KH/EX	4.8		R ³ , S ⁵
Fawley	KH/EX	3.7		
Fireball	KH/EX	4.5	3.4	R ⁴ , MR ⁵
Fireflash	Girard		3.4	
Firefly	KH/EX	2.6		S ^{3,5}
George Reynolds	KH/EX	4.5	3.4	S ^{3,5}
Gibraltar	KH/EX	4.2	3.5	R ^{1,2,4} , S ³
Gog	KH/EX	3.9		
Gold Dust	KH/EX	3.9		S ³
Golden Deciduous	UNCL	4.3		S ⁵
Golden Dream	KH/EX	4.8		
Golden Eagle	KH/EX	3.6		MR ⁵
Golden Horn	KH/EX	3.5		S ^{3,5}
Golden Lights	Lights	2.3	2.0	
Golden Pom Pom	Girard	4.0		
Golden Sunset	KH/EX	4.2		S ⁵
Honeysuckle	KH/EX	3.3		S ³
Hotspur	KH/EX	4.5		R ³ , MR ⁵
Hotspur Red	KH/EX	3.7		R ³ , S ⁵
Irene Koster	Ghent		4.8	S ¹
John F. Kennedy	KH-Beneschoen	2.9		
Klondyke	KH/EX	3.8	3.4	S ³ , R ⁴
Knap Hill Apricot	KH/EX	4.6		
Knap Hill Red	KH/EX	3.8		
Knap Hill White	KH/EX	4.4		
Koster's Brilliant Red	Mollis	3.5		
Lemon Lights	Lights	2.4	3.7	
Lilac Lights	Lights	3.4		
Mandarin Lights	Lights	2.1	2.8	
Marina	KH/EX	4.4		S ^{3,5}
Mary Holman	KH-Pride	2.8		S ⁵
Mollala Red	KH/EX		3.0	

Susceptible Cultivars	Hybrid Group ^a	Garden Survey Disease Rating ^b	Field Trial Disease Rating ^c	Previous Rating ^d
Mount Saint Helen	Girard	3.7	3.8	S ⁵
Nancy Buchanan	KH/EX	4.7		S ^{3,5}
Northern Lights	Lights	2.0		
Orange Jolly	Girard	3.5	4.4	
Orchid Lights	Lights	3.7	3.6	
Orient	KH/EX	2.8		S ³ , MR ⁵
Pink Delight	Girard	3.5		S ^{3,5}
Pink Lights	Lights	2.2		
Pink Williams	Ilam	4.1		
Primrose	KH/EX	4.7		S ⁵
Rosata	Felix & Dijkhuis	2.3		
Rosy Lights	Lights	4.0	3.6	
Royal Lodge	KH/EX	2.3		R ^{3,4}
Salmon Delight	Girard	3.0		
Sandra Marie	KH-Bovee	4.6		S ^{3,5}
Scarlet Pimpernel	KH/EX	3.0		
Sham's Yellow	KH-Shammar.	3.2		
Snowdrift	Mollis	4.2		S ^{3,5}
Spicy Lights	Lights	3.4		
Strawberry Ice	KH/EX	5.0	4.1	S ³
Sun Chariot	KH/EX	4.4		
Sunbonnet	UNCL	4.9		
Sweet Sue	KH-Bovee	3.5		R ³ , S ⁵
Tintoretto	Ilam	4.0		S ⁵
Toucan	KH/EX	2.6		R ⁴
Tri-Lights	Lights	2.3	2.7	
Tunis	KH/EX	3.3		
Umpqua Queen	KH-Schoneman	3.8		
Western Lights	Lights	3.0	3.6	
White Cap	Ilam	3.8		S ^{3,5}
White Lights	Lights	2.9	3.3	
Williams	UNCL	4.8		S ^{3,5}
Windsor Appleblossom	KH/EX	4.8		
Yellow Cloud	KH-Hyatt		4.6	
Yellow Giant	EX-Pride	5.0		MR ⁵
Yellow Pom Pom	Girard		3.4	
Grand Mean		3.0		
LSD <i>P</i> < 0.05		1.0		

^a Classified by established hybrid groups, according to the Azalea Society of America online name index (www.azaleas.org/index.pl/azindex.html). ^b See Materials and Methods for numerical disease scale used to rate plants. Most disease ratings are mean values from multiple years at one or more locations – 31 cultivars were evaluated at one location only. Mean differences of 1.0 or more in disease ratings are statistically significant ($P < 0.05$).

^c From Long et al. (23).

^d Disease ratings from previously published studies. Numerical superscripts refer to the following publications in the Literature Cited section: ¹ Basden and Helfer (1), ² Dutky (7), ³ Ford (9); ⁴ Hardy (13), ⁵ Cochran and Ellett(4).