

**Rose variety reaction to *Alternaria* petal blight disease under minimal input growing conditions, 2001.**

A two-year study with 108 commercial rose varieties evaluated the response to naturally occurring rose petal blight disease at the Texas A&M University Research Center at Dallas. Roses were planted on native or grafted rootstocks as they were offered commercially. All of the rose varieties were planted in four randomized blocks during the spring of 1999 and disease evaluations were made monthly during spring and summer months of 2000 and 2001. During the evaluation period, test plants were given no fertility or pesticides, and irrigation was minimal to stimulate minimal growing conditions for Dallas, Texas. Petal blight infection occurred by natural infection during the five month observation period during both years. Plants were rated empirically each month (April-Aug) for severity of petal blight using a disease scale of 0-3 max where 0=no petal blight, 1=slight number of petal spots, 2=moderate number of petal spots, and 3=severe petal blight symptoms. Petal blight infection was more severe during year 2000 than the second year 2001 during the two year study. Fifty rose cultivars demonstrated no symptoms of petal blight disease.

Variety	2000		2001		2 yr Mean	Variety	2000		2001		2 Yr Mean
	No. obs	Mean	No. obs	Mean			No. obs	Mean	No. obs	Mean	
American Beauty ...	9	0.00	16	0.00	0.00	Graham Thomas .....	18	0.06	16	0.00	0.03
Apricot China .....	17	0.00	16	0.00	0.00	Sun Flare .....	17	0.06	16	0.00	0.03
Caldwell Pink .....	20	0.00	16	0.00	0.00	Juane Desprez .....	14	0.07	16	0.00	0.04
Cecile Brunner ...	20	0.00	12	0.00	0.00	Madame Gregorie .....	15	0.07	16	0.00	0.04
Chrysler Imperial..	18	0.00	16	0.00	0.00	Madame Joseph Schwartz	15	0.07	16	0.00	0.04
Consuelo .....	13	0.00	16	0.00	0.00	Valentine .....	14	0.07	16	0.00	0.04
Cramoisi Superior.	1	0.00	16	0.00	0.00	Ducher .....	12	0.08	16	0.00	0.04
Crimson Glory ....	13	0.00	16	0.00	0.00	Kronprinzessin Viktoria .	13	0.08	16	0.00	0.04
Dortmund .....	19	0.00	12	0.00	0.00	La France .....	13	0.08	24	0.00	0.04
Easy Going .....	18	0.00	16	0.00	0.00	Margaret Merrill .....	13	0.08	16	0.00	0.04
Francis Dubreuil..	10	0.00	12	0.00	0.00	Mrs.B.R. Cant .....	13	0.08	16	0.00	0.04
Gold Medal .....	18	0.00	8	0.00	0.00	Queen Elizabeth .....	13	0.08	16	0.00	0.04
Heritage .....	18	0.00	16	0.00	0.00	Annie's Red .....	18	0.00	16	0.08	0.04
Lafter .....	16	0.00	16	0.00	0.00	Europeana .....	18	0.00	16	0.08	0.04
Lamarque .....	18	0.00	12	0.00	0.00	Fragrant Cloud .....	11	0.00	12	0.08	0.04
Lindee .....	16	0.00	12	0.00	0.00	Gruss an Aachen .....	11	0.00	16	0.08	0.04
Louis Phillipe ....	19	0.00	12	0.00	0.00	Hermosa .....	14	0.00	16	0.08	0.04
Marie Daly .....	18	0.00	16	0.00	0.00	Maman Cochet .....	10	0.00	16	0.08	0.04
Marie Pavie .....	12	0.00	16	0.00	0.00	Marechal Niel .....	17	0.00	16	0.08	0.04
New Dawn .....	16	0.00	16	0.00	0.00	Red Cascade .....	18	0.00	16	0.08	0.04
Oklahoma .....	19	0.00	12	0.00	0.00	Tourament of Roses .....	17	0.00	16	0.08	0.04
Perle d'Or .....	20	0.00	16	0.00	0.00	Celine Forestier .....	11	0.09	16	0.00	0.05
RaspberryTwist ...	10	0.00	16	0.00	0.00	Granada .....	11	0.09	16	0.00	0.05
Red Radiance .....	19	0.00	16	0.00	0.00	Knockout .....	20	0.10	16	0.00	0.05
Red Ribbon .....	19	0.00	12	0.00	0.00	Livin' Easy .....	20	0.10	16	0.00	0.05
Safrano .....	9	0.00	16	0.00	0.00	Monsieur Tillier .....	20	0.10	16	0.00	0.05
Showbiz .....	16	0.00	16	0.00	0.00	Maggie.....	20	0.00	16	0.11	0.06
Sir Thomas Lipton	19	0.00	16	0.00	0.00	Marchesa Boccella .....	18	0.11	16	0.00	0.06
Sombreuil .....	12	0.00	16	0.00	0.00	Madame Alfred Carriere ..	17	0.12	16	0.00	0.06
Westerland .....	9	0.00	16	0.00	0.00	Baty's Pink Pillar .....	8	0.13	16	0.00	0.07
Blush Noisette ...	20	0.05	16	0.00	0.00	Bonica .....	16	0.13	16	0.00	0.07
Double Delight...	19	0.05	16	0.00	0.00	Iceberg-shrub .....	15	0.13	16	0.00	0.07
Mutabilis .....	20	0.05	12	0.00	0.00	Madam Antoine Mari .....	16	0.13	16	0.00	0.07
Archduke Charles	17	0.06	16	0.00	0.00	Old Blush .....	16	0.13	12	0.00	0.07
LSD (P=0.05)		0.12		0.18		LSD (P=0.05)		0.12		0.18	

Variety	2000		2001		2 yr	Variety	2000		2001		2 Yr
	No. obs	Mean	No. obs	Mean	Mean		No. obs	Mean	No. obs	Mean	Mean
Peace .....	15	0.13	16	0.00	0.07	Sunsprite .....	14	0.00	16	0.25	0.12
Zepherin Drouhin ....	15	0.13		0.00	0.07	Mr. Lincoln .....	8	0.00	16	0.25	0.13
Nearly Wild .....	19	0.05	16	0.08	0.07	Angel Face .....	11	0.09	16	0.17	0.13
Baronne Prevost .....	17	0.06	12	0.08	0.07	Duchess de Brabant .....	18	0.11	16	0.17	0.14
Blaze .....	18	0.06	16	0.08	0.07	Else Poulsen .....	20	0.20	16	0.08	0.14
Pascali .....	16	0.06	16	0.08	0.07	Sea Foam .....	20	0.20	16	0.08	0.14
Mrs. Dudley .....	13	0.15	16	0.00	0.08	Reve d'Or .....	17	0.12	16	0.17	0.14
Natchitoches Noisette	15	0.07	16	0.08	0.08	Spice .....	20	0.30	16	0.00	0.15
Buff Beauty .....	16	0.00	16	0.17	0.08	Puerto Rico .....	18	0.06	16	0.25	0.15
Dame de Coeur .....	18	0.00	16	0.17	0.08	Tropicana .....	17	0.24	16	0.08	0.16
Trumpeter .....	13	0.00	16	0.17	0.08	Perle des Jardins .....	12	0.08	16	0.25	0.17
Bon Silene .....	18	0.17	16	0.00	0.09	Souvenir de la Malmaison	8	0.25	16	0.11	0.18
Iceberg-climbing .....	18	0.17	12	0.00	0.09	Belinda's Dream .....	18	0.44	16	0.00	0.22
Georgetown Tea .....	11	0.18	16	0.00	0.09	Pinkie (climbing) .....	20	0.45	16	0.00	0.23
The Fairy .....	20	0.10	16	0.08	0.09	Gartendirektor Otto Linne	20	0.15	12	0.33	0.24
Katy road Pink .....	15	0.13	16	0.08	0.11	Pam's Pink .....	9	0.22	16	0.33	0.28
Don Juan .....	18	0.06	16	0.17	0.11	Belinda .....	17	0.00	16	0.58	0.29
Souvenir de St. Anne	20	0.15	12	0.08	0.12	Gene Boerner .....	20	0.25	16	0.59	0.42
Paul Neyron .....	15	0.07	12	0.17	0.12	First Prize .....	11	0.36	16	0.50	0.43
Sara Van Fleet .....	18	0.00	8	0.25	0.12	La Marne .....	19	0.32	16	0.75	0.54
LSD (P=0.05)		0.12		0.18		LSD (P=0.05)		0.12		0.18	