



Title: Effect of fungicides on severity of Cyclamen anthracnose

Host: *Cyclamen persicum* (cyclamen) 'Intermezzo purple'

Inoculation: Plants were inoculated with a spore suspension of *Colletotrichum gloeosporioides* (originally obtained from Cyclamen) grown on potato-dextrose agar medium for 7 days. Spores were scraped from the colony surface and diluted in sterilized water to about 1×10^6 spores/ml. The resulting water suspension was sprayed on the plants and then plants were placed in a plastic bag on 13 February 2007.

Treatments:	Rate/100 gal
A. Water - noninoculated	-----
B. Water – inoculated	-----
C. Heritage/Capsil	2 oz/4 oz
D. Heritage/Capsil	4 oz/4 oz
E. Heritage	2 oz
F. Heritage	4 oz
G. Palladium	2 oz
H. Palladium	4 oz
I. Palladium	6 oz
J. Daconil Ultrex	22 oz
K. Medallion	4 oz

Chemical application dates: All treatments were applied as a foliar spray on 5, 12 and 29 January and 5, 16 February 2007.

Treatment	Rate/100 gal	Flower Phytotoxicity 2/12/07	No. of Leaf Spots 2/19/07	Disease Severity on Flowers 2/19/07
Water-noninoculated	-----	1.0 a	0.0 a	1.0 a
Water-inoculated	-----	1.2 ab	49.5 b	2.7 c
Heritage/Capsil	2 oz/4 oz	1.0 a	0.8 a	1.2 ab
Heritage/Capsil	4 oz/4 oz	1.6 b	1.4 a	1.6 ab
Heritage	2 oz	1.3 ab	3.0 a	1.8 b
Heritage	4 oz	1.4 ab	4.5 a	1.5 ab

Palladium	2 oz	1.8 b	13.0 a	1.9 b
Palladium	4 oz	2.5 c	3.7 a	1.1 a
Palladium	6 oz	2.6 c	2.4 a	1.3 ab
Daconil Ultrex	22 oz	4.1 d	0.0 a	Not applicable
Medallion	4 oz	1.6 b	14.3 a	1.9 b

Severity of phytotoxicity on open flowers was recorded using the following scale: 1 – none, 2 – slight, 3 – moderate, 4 – severe to 5 – flowers dead.

Severity of flower anthracnose was recorded using the following scale: 1 – none, 2 – slight spotting on a few flowers, 3 – moderate spotting on most flowers, 4 – heavy spotting and some blighting to 5 – severe blight on all flowers.