



Title: Effect of fungicides on Severity of Cyclamen anthracnose

Host: *Cyclamen persicum* (cyclamen) 'Laser Salmon'

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 rubbed 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 22 January, 2007.

Treatments:	Rate/100 gal
A. Water - noninoculated	-----
B. Water - inoculated	-----
C. Clevis	32 oz
D. Rhapsody	128 oz
E. Rhapsody and Daconil Ultrex	128 oz and 22.4 oz
F. Daconil Ultrex	22.4 oz
G. SP2015	10 oz
H. Pentathlon	24 oz
I. SP2015 and Pentathlon	10 oz and 24 oz
J. Chipco 26109	16 oz
K. Terraguard	8 oz

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

Treatment	Rate/100 gal	Flower Phytotoxicity 1/15/07	Residue 1/15/07	Disease Severity 2/3/07	% Flower Damage 2/3/07
Water-noninoculated	-----	1.1 a	1.2 a	1.0 a	0.4 a
Water-inoculated	-----	1.5 a	1.3 a	3.2 cd	35.8 bcd
Clevis	32 oz	2.0 ab	4.5 e	1.8 ab	25.9 bcd
Rhapsody	128 oz	2.0 ab	1.4 a	2.0	18.3 abc
Rhapsody and Daconil Ultrex	128 and 22.4 oz	2.7 b	3.4 c	2.6 bc	42.9 cd
Daconil Ultrex	22.4 oz	1.6 a	4.1 d	2.2 b	44.6 d

SP2015	10 oz	1.1 a	2.1 b	2.0 b	13.6 ab
Pentathlon	24 oz	1.8 ab	4.4 de	1.8 ab	23.0 bcd
SP2015 and Pentathlon	10 and 24 oz	2.0 ab	4.0 d	2.3 b	31.2 bcd
Chipco 26019	16 oz	1.9 ab	4.2 de	2.2 b	25.4 bcd
Terraguard	8 oz	2.0 ab	2.0 b	3.5 d	35.4 bcd

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 chemical residue was recorded using the following scale: 1 – none, 2 – slight, 3 – moderate, 4 – heavy to 5 – severe.

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.