



Title: Effect of fungicides on preventing *Alternaria* leaf spot on Impatiens

Host: *Impatiens x Wallerana* (impatiens) 'Orange'

Inoculation: Plants were inoculated with a spore suspension of *Alternaria alternata* mixed with sterilized water (1×10^3 spores/ml). The suspension was sprayed onto the plants with a hand-pumped spray bottle on 15 June, 2006. The plants were then placed into plastic covered boxes and kept moist for 24 hours. They were removed and then placed under mist. Unfortunately, the weather was very hot the days surrounding this inoculation and plants developed only small numbers of spots.

Treatments:	Rate/100 gal
A. Water - noninoculated	-----
B. Water – inoculated	-----
C. Palladium	2 oz
D. Palladium	4 oz
E. Vanguard	2 oz
F. Medallion	2 oz
G. Heritage	1 oz
H. Daconil Ultrex	1.4 lb
I. Insignia	2 oz
J. Insignia	4 oz
K. Experimental A	8 oz
L. Experimental B	7 oz

Chemical application dates: All treatments were applied as a foliar spray (to drip) as listed above on 21, 28 June, 5 and 12 July, 2006.

Treatment	Rate/100 gal.	Leaf curl 7/3/06	No. spots 7/13/06	White spots 7/13/06
Noninoculated	-----	1.2 a	0.0 a	1.0 a
Inoculated	-----	1.4 a	3.3 b	1.0 a
Palladium	2 oz	1.8 a	0.0 a	1.0 a
Palladium	4 oz	3.0 c	0.2 a	1.0 a
Vanguard	2 oz	2.3 b	0.4 a	1.0 a
Medallion	2 oz	1.4 a	0.0 a	1.0 a
Heritage	1 oz	1.6 a	0.4 a	1.0 a
Daconil Ultrex	1.4 lb	1.4 a	0.0 a	1.6 b

Insignia	2 oz	1.4 a	0.7 a	1.5 b
Insignia	4 oz	1.3 a	1.9 a	1.6 b
Exp. A	8 oz	1.4 a	1.2 a	3.0 d
Exp. B	7 oz	1.4 a	0.2 a	2.1 c

Leaf curl severity (phytotoxicity) was recorded using the following scale: 1 – no phytotoxicity, 2 – slight, 3 – moderate, 4 – severe to 5 – plant dead.

White spots were due to phytotoxicity as well.