



Title: Effect of fungicides on Alternaria leaf spot on Zinnia

Host: *Zinnia elegans* (Zinnia) 'Profusion White'

Inoculation: Plants were inoculated with a spore suspension of a culture of *Alternaria zinniae* made with sterilized water. The suspension was sprayed onto the plants with a hand-pump spray bottle on 13 June, 2005. After inoculation the plants were placed in plastic bags for 24 hours under mist. On 14 June, 2005 the bags were removed and the mist left on for the duration of the trial.

Treatments:	Rate/100 gal
A. Water - noninoculated	-----
B. Water – inoculated	-----
C. Palladium	4 oz
D. Palladium	8 oz
E. Palladium	16 oz
F. Palladium	24 oz
G. Medallion 50WP	1 oz
H. Medallion 50WP	2 oz
I. Vanguard	1.5 oz
J. Vanguard	4.5 oz
K. Heritage 50WDG	2 oz
L. Daconil Ultrex	1.4 lb
M. Chipco 26019 50WP	1 lb
N. Terraguard 50WP	4 oz
O. Phyton 27	20 oz

Chemical application dates: All treatments were applied as a foliar spray (to drip) on a 14 day interval as listed above on 7, 21 June and 5 July, 2005.

Treatment	Rate/ 100 gal.	No. spots 1 July, 2005	No. spots 11 July, 2005
Water – Noninoculated	-----	0.0 a	0.0 a
Water – Inoculated	-----	2.9 c	9.2 c
Palladium	4 oz	0.2 a	0.0 a
Palladium	8 oz	0.0 a	0.2 a
Palladium	16 oz	0.0 a	0.0 a
Palladium	24 oz	0.0 a	0.0 a
Medallion 50WP	1 oz	0.6 a	0.2 a
Medallion 50WP	2 oz	0.2 a	0.7 a
Vanguard	1.5 oz	0.1 a	4.1 b
Vanguard	4.5 oz	0.2 a	1.8 ab
Heritage 50WG	2 oz	0.0 a	0.2 a
Daconil Ultrex	1.4 lb	1.9 b	2.7 ab
Chipco 26019 50WP	1 lb	0.0 a	0.0 a
Terraguard 50WP	4 oz	0.3 a	3.0 ab
Phyton 27	20 oz	4.4 d	9.4 c