



Title: Efficacy of fungicides on *Pythium irregulare* on Geranium.

Host: During June, 2011 *Pelargonium x hortorum* (geranium) 'First Yellow' plugs were planted in 4 inch pots containing Sunshine No. 4. The plants were fertilized with 1/2 tsp. Osmocote Plus 15-9-12 (8-9 month) the same day. The test was conducted in a heated greenhouse with poly and shade cloth covering the top and sides. The trial started on 6 July, 2011.

Inoculation: Plants were inoculated with a culture of *Pythium irregulare* (resistant to mefenoxam) mixed with sterilized water at the rate of 1 plate per 1000 ml. The inoculum was drenched into the potting medium at the rate of 10 ml per pot and watered in lightly (18 July, 2011).

	Treatments:	Rate/100 gal
A.	Water noninoculated	-----
B.	Water inoculated	-----
C.	Subdue MAXX	1 oz
D.	Terrazole 35W	6 oz
E.	Terrazole 35W and Adorn	6 oz and 2 oz
F.	Adorn	2 oz
G.	AEM (weekly drench)	1:500

AEM is activated efficient microorganisms from EMRO.

Chemical application dates: All treatments were applied as a drench at 50 ml per 4 inch pot on a 14 day interval (except 'G') as listed above on 7, 14, 21, 28 July, 4, 11, 18, 25 August, 2 and 16 September, 2011.

Treatment	Phytotoxicity 9-16-11	Top grade 10-3-11	Height (cm) 10-3-11	Root grade 10-7-11
Water Noninoculated	1.0 a	4.1 b	12.6 b	3.5 b
Water Inoculated	1.0 a	3.7 b	12.1 ab	2.9 a
Subdue MAXX	1.0 a	3.7 b	11.8 ab	3.0 a
Terrazole 35W	1.0 a	3.9 b	12.0 ab	3.1 a
Terrazole 35W and Adorn	1.4 b	3.9 b	12.1 ab	2.9 a
Adorn	2.5 c	2.8 a	10.9 a	2.9 a
AEM	1.0 a	4.0 b	13.0 b	3.6 b

Numbers in the same column followed by the same letter are not significantly different.

Top grade was rated from 1 (dead) to 5 (excellent). Root grade was rated from 1 (no roots) to 5 (excellent).