



Title: Efficacy of fungicides on *Alternaria* leaf spot on Impatiens.

Host: *Impatiens wallerana* (common impatiens) 'Super Elfin XP Red' plugs

Inoculation: Plants were inoculated with spores of *Alternaria alternata* mixed with sterilized water sprayed onto leaves on 30 June, 2009. After inoculation the plants were placed into clear plastic bags (high humidity) under intermittent mist conditions for 24 hours. The bags were removed and the plants remained under mist for the duration of the trial. Mist ran for 30 seconds/hour for 12 hour/day (8 am to 8 pm).

	Treatments:	Rate/100 gal
A.	Water noninoculated	-----
B.	Water inoculated	-----
C.	Pageant	12 oz
D.	Cygnus	6.4 oz
E.	Exp. 1	-----
F.	Trinity	12 oz
G.	Exp. 2	-----

Chemical application dates: All treatments except E and G were applied as a foliar spray (to drip) as listed above on 25 June and 2 July, 2009. Treatment G was applied on 26 June and 3 July, 2009.

Treatment	Rate/100 gal	# of Spots/Plant 7-9-09	Leaf Burn 7-9-09	Top Grade 7-9-09
Water-Noninoculated	-----	0.0 a	1.2 a	4.1 b
Water- Inoculated	-----	7.2 b	1.1 a	4.1 b
Pageant	12 oz	0.5 a	2.3 b	3.7 b
Cygnus	6.4 oz	0.0 a	1.2 a	4.0 b
Exp. 1	-----	0.0 a	1.2 a	3.9 b
Trinity	12 oz	0.2 a	1.1 a	3.8 b
Exp. 2	-----	0.4 a	3.0 c	3.3 a

The severity of leaf burns (marginal burning) was recorded using the following scale: 1 – no leaf burn, 2 – slight, 3 – moderate, 4 – severe to 5 – extreme burn, whole leaf dead.

Top grade was recorded using the following scale: 1 - plant dead, unsalable, 2 - poor, unsalable, 3 - moderate, salable, 4 - good, salable to 5 - excellent, salable.