



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

Host: *Impatiens Wallerana* (common impatiens) ‘Super Elfin XP Rose’ plugs

Inoculation: Plants were inoculated by spraying with spores of *Alternaria alternata* mixed with sterilized water (about  $1 \times 10^4$  spores/ml) on 28 September, 2009. The plants were placed under intermittent mist (30 sec/hour 12 hr/day) conditions when inoculated and until the end of the trial. They were placed into clear plastic bags (high humidity) for 24 hours.

	Treatments:	Rate/100 gal
A.	Water noninoculated	-----
B.	Water inoculated	-----
C.	Medallion	1 oz
D.	Disarm 480 SC	2 oz
E.	Disarm 480 SC	4 oz
F.	Pageant	12 oz
G.	Exp. 1	-----
H.	Chipco 26019	16 oz
I.	Exp. 2	-----

Chemical application dates: All treatments were applied as a foliar spray (to drip) as listed above on 23, 24, and 30 September, 1 and 7 October 2009.

Treatment	Rate/100 gal.	Phytotoxicity 10-9-09	# spots/plant 10-9-09	# spots/plant 10-12-09
Water Noninoculated	-----	1.0 a	0.0 a	0.0 a
Water inoculated	-----	1.0 a	13.9 b	76.7 c
Medallion	1 oz	1.2 a	0.0 a	0.0 a
Disarm 480 SC	2 oz	1.5 bc	0.5 a	0.5 a
Disarm 480 SC	4 oz	1.7 c	0.2 a	1.1 a
Pageant	12 oz	2.4 d	0.2 a	0.0 a
Exp. 1	-----	3.0 e	0.1 a	0.0 a
Chipco 26019	16 oz	1.0 a	0.0 a	0.0 a
Exp. 2	-----	1.3 ab	1.3 a	12.7 b

Phytotoxicity severity (foliar burning and distortion) was recorded using the following scale: 1 – no phytotoxicity, 2- slight, 3 – moderate, 4 – severe to 5 – plant dead.