



Title: Effects of fungicides on severity of Alternaria leaf spot on impatiens

Host: *Impatiens Wallerana* 'Super Elfin Violet'

Pathogen: *Alternaria alternata*

Inoculation: Each plant was inoculated with spores in sterile water and bagged on 28 October 2002. The bags were removed the next day but intermittent mist was continued for the rest of the trial.

Treatments:	Rate/100 gal
A. Noninoculated	-----
B. Inoculated	-----
C. Spectro 90WDG	1 lb
D. Spectro 90WDG	2 lb
E. Endorse	0.55 lb (7-day interval)
F. Endorse	0.55 lb
G. Endorse	1.1 lb
H. Endorse	2.2 lb
I. Heritage	1 oz

Chemical application dates: All treatments were applied as foliar sprays on 10 and 17 September, 23 and 30 October and 6 November 2002. All treatments (except E) were sprayed on a 14-day interval. E was sprayed on a 7-day interval.

Treatment	Rate/100 gal	No. Spots/Pot 11/6/02	Top Grade 11/6/02
Noninoculated	-----	0.0 a	3.6 c
Inoculated	-----	66.2 b	2.2 a
Spectro 90WDG	1 lb	1.2 a	3.0 b
Spectro 90WDG	2 lb	0.4 a	3.4 bc
Endorse	0.55 lb	8.2 a	3.0 b
Endorse	0.55 lb	10.9 a	3.2 b
Endorse	1.1 lb	8.6 a	3.0 b
Endorse	2.2 lb	10.4 a	3.3 bc
Heritage 50WDG	1 oz	8.7 a	3.1 b

Top grade was rated using the following scale: 1 (dead, unsalable), 2 (poor, unsalable), 3 (moderate, salable), 4 (good, salable), and 5 (excellent, salable).