



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

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

Inoculation: Plants were inoculated with *Alternaria alternata* by spraying with spores mixed with sterilized water on 7 July, 2010. After inoculation the plants were placed under clear plastic (high humidity) under mist conditions for 24 hours. The plastic was removed and the plants remained under mist for the duration of the trial.

|    | Treatments:         | Rate/100 gal |
|----|---------------------|--------------|
| A. | Water noninoculated | -----        |
| B. | Water inoculated    | -----        |
| C. | Pageant             | 12 oz        |
| D. | Exp. 1              | 0.5 x        |
| E. | Exp. 1              | 1 x          |
| F. | Trinity             | 6 oz         |
| G. | Trinity             | 12 oz        |
| H. | Exp. 2              | 0.5 x        |
| I. | Exp. 2              | 1 x          |

Chemical application dates: All treatments were applied as a foliar spray (to drip) as listed above on 1, 2, 8 and 9 July, 2010.

| Treatment           | Rate/100 gal. | # spots/plant 7-14-10 | Top grade 7-14-10 | Phytotoxicity 7-14-10 |
|---------------------|---------------|-----------------------|-------------------|-----------------------|
| Water noninoculated | -----         | 0.0 a                 | 4.0 d             | 1.1 a                 |
| Water inoculated    | -----         | 25.4 c                | 3.9 cd            | 1.0 a                 |
| Pageant             | 12 oz         | 2.8 a                 | 3.7 bcd           | 1.6 b                 |
| Exp. 1              | 0.5 x         | 1.8 a                 | 3.5 ab            | 1.7 bc                |
| Exp. 1              | 1 x           | 12.1 b                | 3.3 a             | 2.1 c                 |
| Trinity             | 6 oz          | 0.5 a                 | 3.8 bcd           | 1.1 a                 |
| Trinity             | 12 oz         | 3.0 a                 | 3.8 bcd           | 1.0 a                 |
| Exp. 2              | 0.5 x         | 3.8 a                 | 3.6 abc           | 1.2 a                 |
| Exp. 2              | 1x            | 0.9 a                 | 3.3 a             | 1.8 bc                |

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.

Phytotoxicity severity (leaf edge burn) was recorded using the following scale: 1 - no phytotoxicity, 2 - slight, 3 - moderate, 4 - severe to 5 - plant dead.