

2006 UF COOPERATIVE FUNGICIDE EVALUATION PROJECT

Evaluation of Terrazole for managing *Phytophthora* root rot of containerized vinca

FINAL REPORT

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INVESTIGATORS: Philip F. Harmon and Chuck Semer

OBJECTIVE: Evaluate fungicide efficacy and safety of Terrazole 35WP and Subdue Maxx for management of *Phytophthora* root rot caused by *Phytophthora parasitica* var. *nicotiana* of Vinca

TREATMENTS:

Trt #	Fungicide	Rate oz/100 gal	interval
1	Untreated control		
2	Terrazole35WP	6	1 app
3	Subdue Maxx	1	1 app

MATERIALS AND METHODS:

Vinca sp. 'Pink Star' were transplanted into six-inch pots of Metro Mix 300 propagation medium on 7 Aug 2006. Pots were arranged in a RCB design with 6 pots per replicate and 6 replicates per treatment.

The transplants were allowed to become habituated to the pots and greenhouse, and On 25 Aug plants were inoculated with 50 ml of a zoospore suspension of *Phytophthora parasitica* var. *nicotiana* containing 2.5×10^5 zoospores per ml per pot.

The test materials were applied as per protocol on 28 Aug, and the plants were maintained and evaluated in a greenhouse. Plants were rated for efficacy of disease control on 8 Sep, 15 Sep, 25 Sep, and on 9 Oct.

RESULTS AND DISCUSSION:

Disease symptoms were apparent on 8 Sep. Symptoms included wilt, and straw discoloration of plant stems. Symptoms progressed throughout the trial and plant death was first recorded in the 9 Oct rating.

In this test the Subdue Maxx treatment had significantly fewer plants die than untreated plants. The Terrazole treatment had numerically fewer plants die than untreated but the difference was not statistically significant.

No phytotoxicity was observed in any treatment.

Table 1. Percent plant death in Vinca transplants inoculated with *P. parasitica* var. *nicotiana*

TRT	9 Oct
1 Untreated control	47.2 a
2 Terrazole 35WP (6 oz/100gal)	33.3 ab
3 Subdue maxx (1 oz/100 gal)	19.4 b

means within columns followed by the same letter are not significantly different according to Duncan's Multiple Range Test (P=0.05).