

2006 UF COOPERATIVE FUNGICIDE EVALUATION PROJECT

Evaluation of two formulations of Terraguard for phytotoxicity on coleus

FINAL REPORT

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OBJECTIVE: Evaluate fungicide product safety of Terraguard SC and Terraguard 50W on ornamental plants grown in Florida

TREATMENTS:

Trt #	Fungicide	Rate oz/100 gal	interval
1	Untreated control		
2	Terraguard SC	6	14 d
3	Terraguard 50W	3	14 d

MATERIALS AND METHODS:

Coleus seedlings were obtained in early August. The seedlings were transplanted into 6 inch pots filled with Metro Mix 300. The seedlings were watered and fertilized to maintain good growth in the greenhouse. The test was laid out as a RCB with six replicates of six plants per replicate. Once the seedlings had established, the test fungicides were prepared and applied to runoff with a hand held pump sprayer according to label instructions. Applications were made on August 4, 2006 and August 18, 2006. The plants were then examined every three days for symptoms of phytotoxicity. Observations were made on August 21, August 23, August 25 and August 28, 2006. On September 1, 2006 the seedlings were harvested from the pot by cutting the stem at the crown. The harvested stems were then transported to the laboratory and individually weighed. The data from the fresh weights of all the treated and check plants were analyzed using ANOVA SAS 9.1 and Duncan's means separation ($P < 0.05$).

RESULTS AND DISCUSSION:

No phytotoxicity was observed in any treatment. When the fresh weight of the plants harvested at the crowns was examined, there was a greater weight observed in the two fungicide treatments compared to the untreated check plants. There was no significant weight difference between the fungicide treatments. No disease symptoms were observed during the trial.

Table 1. Fresh weight of coleus shoots after 2 applications.

TRT	1 Sep
1 Untreated control	86.4 a
2 Terraguard SC (6 oz/100 gal)	105.7 b
3 Terraguard 50W (3 oz/100 gal)	104.3 b

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