Comparison of Uniconazole Products on Geranium

Spring 2006

Dr. Brian Whipker, Department of Horticultural Science
7609 Kilgore Hall, North Carolina State University
Raleigh, NC 27695-7609 USA.

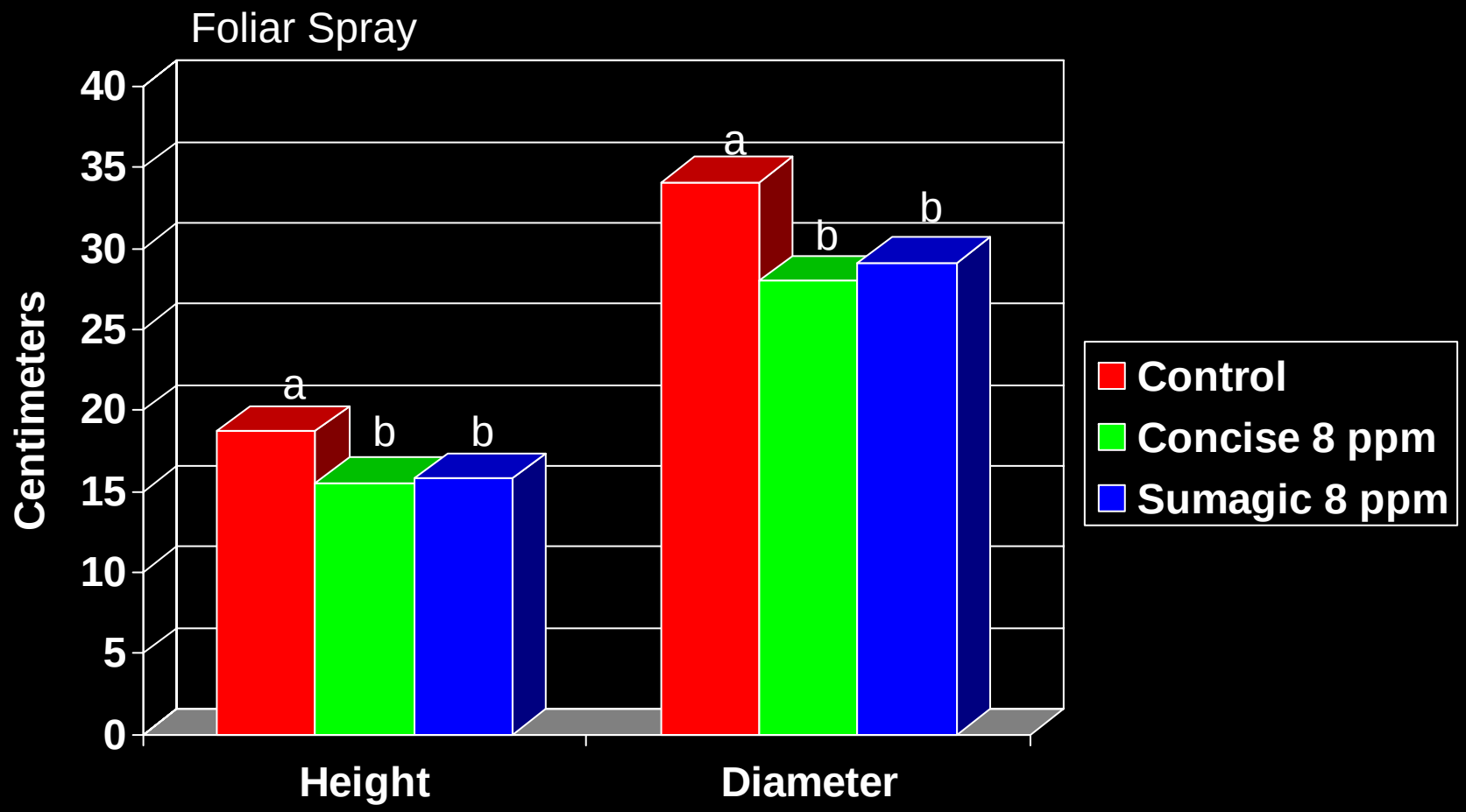
OBJECTIVE

The objective of this experiment was to compare efficacy of Concise™ to Sumagic® as a foliar spray to *Rocky Mountain Royal Red* Geraniums.

METHODS

- On 17 Feb. 2006, *Rocky Mountain Royal Red* geraniums were transplanted planted into 6.5-inch diameter round plastic pots with a volume of 1.9 L.
- The root substrate was Berger BM 6, which is a peat-based mix.
- On 13 March, foliar sprays of Concise (0.055% uniconazole) and Sumagic (0.055% uniconazole) were applied at 0, 1, 2, 4, 6, or 8 ppm.
- The experiment was a completely randomized design with six single plant replications for each of the 11 treatments.
- The plants were grown in a poly-covered greenhouse with day/night temperature set points of 68/65º F.
- Total plant height (measured from the soil line to the uppermost part of the inflorescence), canopy height (measured from the soil line to the uppermost leaf), and plant diameter (measured in 2 directions and averaged) were recorded on 23 April, 2006.

ZONAL GERANIUM – *Rocky Mountain Royal Red*



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Means followed by same letter do not significantly differ (P<0.05)

ZONAL GERANIUM – *Rocky Mountain Royal Red*

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CONCLUSIONS

- Statistically total plant height, canopy height, and plant diameter were significantly different as the concentration of uniconazole applied increased. Both uniconazole types (Concise and Sumagic) had similar control as the concentration increased. Therefore it could be stated that they both have similar efficacies.
- Canopy height and total plant height were 16.5% and 13.3% shorter, respectively, with the use of 8 ppm uniconazole, as compared to the untreated controls. Plant diameter was 19.3% smaller.
- Label recommendations for Sumagic applied to geraniums lists 3 to 6 ppm. The degree of control achieved with the use of 6 to 8 ppm would have been commercially acceptable by greenhouse growers.
- For the growth parameters measured, both types of uniconazole provided a similar degree of control. Growers will be able to use either uniconazole product interchangeably.