

**Vital Earth Resources**

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**2000 Crop Results**

**Vitazyme on Roses**

Grower: Joe Tew, Tyler Rose Nursery, Tyler, Texas; Doug Evans, greenhouse supervisor

Location: Lindale, Texas

Variety: Marquis Bocella

Planting date: Cuttings were rooted in small pots about December 24, 1999, and transplanted to one-gallon pots about February 4, 2000.

Experimental design: A production greenhouse for repotted rose cuttings was divided into two parts: one half to the north was treated with Vitazyme and the other half left untreated. Both sides of the center walkway contained the same rose variety of the same maturity. All treatments were the same for both sides except for Vitazyme on half of the plants.

**1. Control**

**2. Vitazyme**

Fertility treatments: A mixed fertilizer was occasionally applied to both treatments, and the potting soil contained slow-release fertilizers.

Vitazyme treatments: Vitazyme was applied at approximately a 13 oz/acre rate by itself every 21 days, beginning shortly after repotting. Thus, during the 6 weeks of the test the roses received three treatments, but only the first two were involved in the growth stimulation for this study; the last treatment was at the very end.

Fungicide treatments: Fungicides were applied every 5 to 7 days for black spot control.

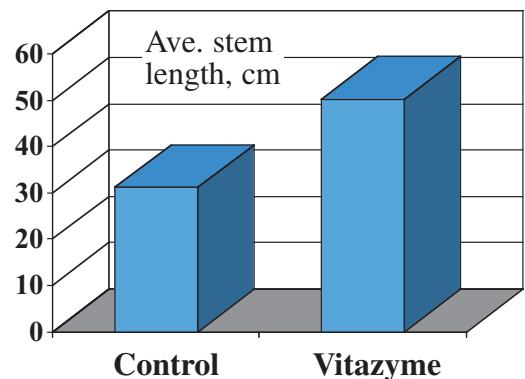
Growth results: Seven representative plants from each treatment were selected at random, and the number of stems and the length of each stem were determined. There was no significant difference in the number of stems per plant, so these were not analyzed and are not reported here.

<u>Treatment</u>	<u>Stem Length, cm</u>	<u>Change, cm</u>
Control	31.2	--
Vitazyme	50.3***	19.1 (+61%)

\*\*\* Significantly greater than the control at P = 0.0002.

LSD<sub>0.05</sub> = 7.8.

**Increase in stem length:  
61%**



Conclusions: Vitazyme applied at three-week intervals greatly increased the growth of these Marquis Bocella roses, as measured by the increase in stem length (+61%) for the 3 to 6-month period after the cuttings were repotted. Such an increase in stem length directly translates to customer appeal and sale value of the plants.