Coffee Crop Report Directory

Recommended Application Rates For Coffee

2005 **Unknown variety**
Cuba

2001 **Unknown variety**
Costa Rica

Crop Recommendations for Coffee

Nursery plants:

Apply at the rate of 1 liter/hectare (13-16 oz/acre) or use a 1% solution to new transplants

Apply at the rate of 1 liter/hectare (13-16 oz/acre) or use a 1% solution every 30-60 days, and each time the plants are moved to a larger container

Established plants:

Apply 1 liter/hectare (13-16 oz/acre) to the plants and soil every 30-60 days

Vitazyme can be tank mixed with all farm chemicals, including herbicides, insecticides, fungicides, and fertilizers.

<u>Added benefit:</u> when mixed with herbicide, Vitazyme will stimulate weed growth, thereby enhancing herbicide efficacy

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2005 Crop Results

Vitazyme on Coffee

A coffee study was conducted in Cuba on newly grafted plants. Little information is available on study details, but parameters measured are given below, showing a notable benefit of Vitazyme in the growth of the young coffee plants. The dosage rate was 15 ml per plant of an 8 ml/liter (0.8%) Vitazyme solution.

Treatment	Plant height	Stalk diameter	Pairs of leaves	Top dry weight	Root dry weight	Root length
	cm	cm	pairs	grams	grams	cm
1. Control	13.66	0.190	5.75	0.57	0.15	19.96
2. Graft soak (20 min.)	13.40	0.157	5.65	0.54	0.12	20.35
3. Foliar spray in the first leaf pair	14.66	0.176	5.95	0.61	0.14	22.73
4. Foliar spray in the second leaf pair	15.24	0.168	6.20	0.80	0.16	22.91
5. Foliar spray in the third leaf pair	15.34	0.190	6.15	0.68	0.14	21.55
6. Graft soak + foliar spray in the third leaf pair	17.78	0.229	6.35	1.00	0.22	22.43

Conclusions: Vitazyme improved young grafted coffee plant growth for all applications, except for the graft soak only (Treatment 2). Plant height was greatest for the graft soak and monthly foliar sprayer (third leaf pair), and stalk diameter, leaf growth, and top and root dry weights were also greatest for this treatment. Root length was similar for all foliar Vitazyme applications. It appears that Vitazyme application to the third leaf pair was most effective – especially when coupled with a graft soak — although the second leaf pair application did about as well. The πfirst leaf pair application gave a slightly lower growth response for several parameters.

Growth responses to graft soaking + monthly third leaf pair applications

Height increase: 4.12 cm (+30%)
Stalk diameter increase: 0.039 cm (+21%)
Leaf pair increase: 0.60 (+10%)
Top dry weight increase: 0.43 g (+75%)
Root dry weight increase: 0.07 g (+47%)
Root length increase: 2.47 cm (+12%)

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2001 Crop Results

Vitazyme on Coffee

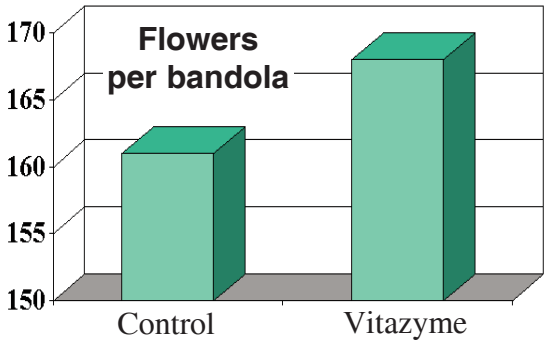
Research farm: El Rodeo farm *Location*: Costa Rica
Variety: unknown *Soil type*: unknown
Experimental design: A small part of a coffee plantation was treated with Vitazyme, and an adjoining area was left as a control.

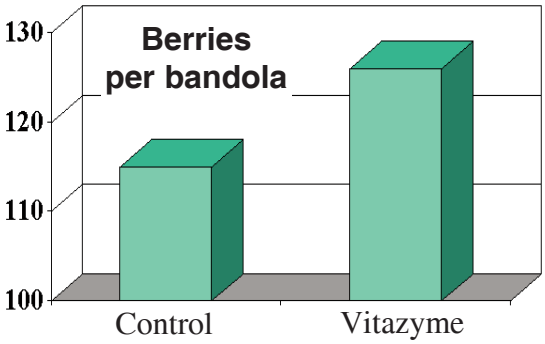
1. Control **2. Vitazyme**

Fertilization : unknown
Vitazyme treatment: Vitazyme at 13 oz/acre (1 litre/ha) at midseason on the foliage and soil
Growth results:

Number of Flowers per Bandola (April, 2001)

	Control	Vitazyme	Change
		ave. of four reps	
Flowers/bandola	161	168	7 (+4%)





Number of Coffee Berries per Bandola

	Control	Vitazyme	Change
		ave. of four reps	
Berries/bandola	115	126	11 (+10%)

Yield increase: 15%

Yield increase: A yield increase of 15% was determined although the actual harvested weight was not available.

Conclusions:: The improvements in coffee plant characteristics as a result of only one Vitazyme application — 4% more flowers and 11% more berries — resulted in a pronounced yield increase of 15%.