Vital Earth Resources
706 East Broadway, Gladewater, Texas 75647
(903) 845-2163 FAX: (903) 845-2262

2011 Crop Results

Vitazyme on Carrots

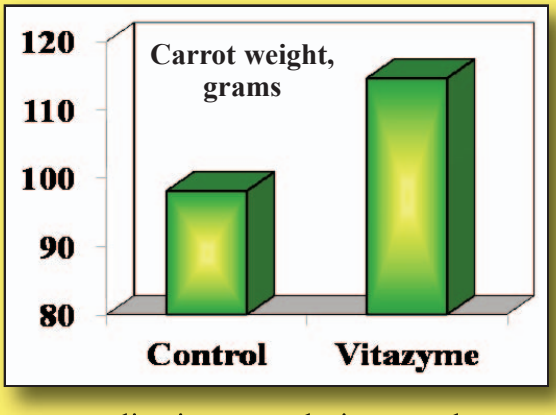
Farmer: West Hills Farms Systems, Perth, Australia *Researcher*: Steven David *Research organization*: Organic Farming
Variety: Stefano *Soil type*: sand
Planting date: March 18, 2010
Experimental design: A field area was divided into an untreated control and a Vitazyme treated area to evaluate the effect of the product on crop yield.

1. Control **2. Vitazyme**

Fertilization: unknown
Vitazyme application: (1) 1 liter/ha on the leaves and soil 28 days after planting; (2) 1 liter/ha on the leaves and soil 69 days after planting
Yield results: The carrots were sampled at harvest on August 4, 2010.

Treatment	Weight	Weight change
	grams/carrot	
Control	98.1	—
Vitazyme	114.6	16.5 (+17%)

Increase in carrot weight with Vitazyme: 17%



Conclusion: A carrot study in Australia showed that two Vitazyme applications greatly increased average root weight (+17%) at harvest. The final yield was considerably greater for the Vitazyme treatment, showing the great value of this program on carrots for Australia.

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2011 Crop Results

Vitazyme on Carrots

Farmer: West Hills Farms Systems, Perth, Australia
Researcher: Steven David
Research organization: Organic Farming
Variety: Stefano
Soil type: sand
Planting date: April 28, 2010

Experimental design: A field area was divided into an untreated control and a Vitazyme treated area to evaluate the effect of the product on crop yield.

1. Control **2. Vitazyme**

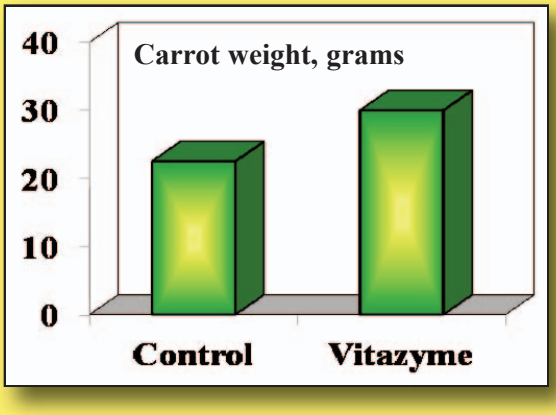
Fertilization: unknown

Vitazyme application: (1) 1 liter/ha on the soil 5 days after planting; (2) 1 liter/ha on the leaves and soil 48 days after planting

Yield results: The carrots were sampled midway through the growth cycle on September 20, 2010, and weighed.

Treatment	Weight	Weight change
	grams/carrot	
Control	22.5	—
Vitazyme	30.0	7.5 (+33%)

Increase in carrot weight with Vitazyme: 33%



Conclusion: A carrot study in Australia showed that two Vitazyme applications greatly increased average root weight (+33%), as measured at midseason. The final yield was not measured, but presumably was considerably greater for the Vitazyme treatment, showing the great value of this program on carrots for Australia.

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2007 Crop Results

Vitazyme on Carrots, Organic

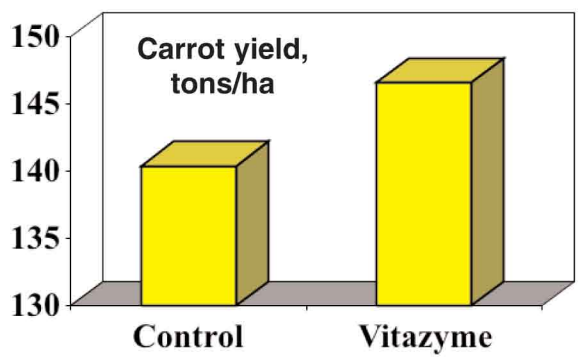
Researchers: Jorge Gonzalez Acosta and Wilberto Gonzalez Marrero
Organization: Ministry of Sugar, Camilo Cienfuegos Agricultural Enterprise
Location: Villena Farm, Havana Province, Cuba
Variety: 100-day maturity
Soil type: red ferralitic, organic beds
Watering: rainfed
Planting date: September 30, 2006
Experimental design: A 0.02 ha area was selected to evaluate the effectiveness of Vitazyme in promoting carrot yields. The crop was treated twice, and observed carefully throughout the growing cycle.

1. Control **2. Vitazyme**

Fertilization: according to recommendations
Vitazyme application: two treatments at 1 liter/ha each time
Growth observations: The Vitazyme treated carrots showed greater vegetative and root growth during the growing season.
Harvest date: December 30, 2006

Treatment	Yield	Change
	tons/ha	tons/ha
Control	140.4	—
Vitazyme	146.6	6.2 (+4%)

Increase in carrot yield: 4%



Conclusions: This Cuban carrot trial revealed how effective Vitazyme can be in enhancing carrot yield under organic growing conditions. This excellent response (11%) continues the excellent responses obtained with the product on vegetables throughout Cuba over the past several years.

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2006 Crop Results

Vitazyme on Carrots

Researcher: unknown *Location*: Ukraine *Variety*: unknown
Planting date: unknown *Planting rate*: unknown

Experimental design: Two half-hectare carrot field areas of "Area 5" were selected, one parcel treated with Vitazyme and the other area left untreated. The objective of the trial was to evaluate Vitazyme's ability to influence carrot yield.

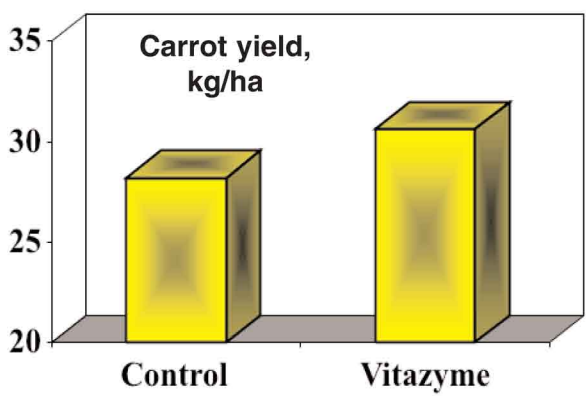
1. Control **2. Vitazyme**

Fertilization: unknown
Vitazyme application: 1 liter/ha on the leaves and soil, at unknown dates
Harvest date: October 1, 2006

Yield results:

Treatment	Yield, 0.5 ha	Yield, 1.0 ha	Change
	kg	kg/ha	kg/ha
Control	14.1	28.2	—
Vitazyme	15.3	30.6	2.4 (+9%)

Increase in carrot yield: 9%



Conclusions: This carrot test in the Ukraine has shown that Vitazyme can substantially improve the yield of these roots under the temperate conditions of the fertile mollisols of that region of Eastern Europe.