



## **Eggplant Crop Report Directory**

### **Recommended Application Rates For Eggplant**

**2004      Unknown variety**  
Santiago de Cuba



## **Crop Recommendations for Tomatoes, Peppers, and Eggplant**

### **Transplants:**

Dip the seedlings in a 1% Vitazyme solution (approx. 1 oz/gallon of water) prior to planting

or

Apply Vitazyme in the transplant water at the rate of 1 liter/hectare (13-16 oz/acre)

or

Apply Vitazyme through drip irrigation either before or immediately after planting at the rate of 1 liter/hectare (13-16 oz/acre).

### **After planting:**

Apply again at early blossom (approximately 30 days after planting or transplanting) either as a foliar spray or through drip or overhead irrigation at the rate of 1 liter/hectare (13-16 oz/acre).

Apply a third time when fruit are midsize (approximately 60 days after planting or transplanting) either as a foliar spray or through drip or overhead irrigation at the rate of 1 liter/hectare (13-16 oz/acre).

For indeterminate plants apply a fourth time after first picking either as a foliar spray or through drip or overhead irrigation at the rate of 1 liter/hectare (13-16 oz/acre).

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

***Added benefit: when mixed with herbicide, Vitazyme will stimulate weed growth, thereby enhancing herbicide efficacy***

## Vital Earth Resources

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# 2004 Crop Results

## Vitazyme on Eggplant

**Researchers:** Isel Creach Rodriguez, Ph.D.

**Location:** Santiago de Cuba Experiment Station, Dos Rios, Palma Soriana, Santiago de Cuba

**Variety:** unknown

**Soil type:** Leptic haplustert

**Planting date:** late 2003

**Experimental design:** An area of 10 m<sup>2</sup> for each treatment was used to evaluate the growth of eggplants, and then a yield estimate was made based on those growth parameters. Each plot had 50 plants. A Vitazyme and a control treatment were used.

### 1. Control

### 2. Vitazyme

**Fertilization:** unknown, but based on soil tests and recommendations

**Vitazyme application:** 1 liter/ha (13 oz/acre) on December 22, 2003, and January 22, 2004

**Growth results:** Plants were evaluated on January 21, February 3, and February 9, 2004, for the various growth parameters that follow using random sampling of plants and leaves. The experimental design for this study is unknown, so only basic statistics have been calculated.

### Plant Height

#### January 21, 2004

#### February 9, 2004

Sample	Control	Vitazyme
	cm	cm
1	29	37
2	28	34
3	27	35
4	28	34
5	29	35
6	30	36
7	29	34
8	34	35
9	31	37
10	29	36
Mean	29.4	35.3 (+20%)

Sample	Control	Vitazyme
	cm	cm
1	45	58
2	42	57
3	44	60
4	48	58
5	49	59
6	47	57
7	48	59
8	47	55
9	45	56
10	48	57
Mean	46.3	57.6 (+24%)

**Increase in plant height: 20%**

**Increase in plant height: 24%**

## Leaf Area (February 3, 2004)

### Control

### Vitazyme

Sample	Length	Width		width	area	Sample	Length	Width		Mean width	Leaf area
		Lobe 1	Lobe 2					Lobe 1	Lobe 2		
Mean	Leaf	cm		cm	cm <sup>2</sup>	cm		cm		cm	cm <sup>2</sup>
1	15.5	11.5	12.0	11.8	182.1	1	20.0	21.0	15.5	18.2	364.0
2	18.0	14.5	12.0	13.3	238.5	2	21.5	16.0	12.5	14.2	305.3
3	19.5	16.0	10.5	13.3	258.4	3	19.5	18.0	14.0	16.0	312.0
4	16.5	14.0	11.5	12.8	210.4	4	18.3	18.5	15.0	16.7	305.6
5	17.4	12.0	13.5	12.8	221.8	5	20.0	17.0	15.5	16.2	324.0
6	19.0	16.0	15.4	15.7	298.3	6	19.4	19.5	12.4	15.9	308.5
7	17.0	14.7	13.0	13.9	235.4	7	20.2	16.0	16.0	16.0	323.2
8	17.0	10.0	12.5	11.3	191.2	8	18.5	16.0	11.0	13.5	249.7
9	19.0	14.0	15.0	14.5	275.5	9	19.5	19.3	15.4	17.3	337.3
10	<u>20.0</u>	<u>9.5</u>	<u>11.5</u>	<u>10.5</u>	<u>126.0</u>	10	<u>20.2</u>	<u>16.3</u>	<u>14.8</u>	<u>15.6</u>	-
Mean	17.9	13.2	12.7	13.0	223.8	Mean	19.7	17.8	14.2	16.0	314.4

**Increase in leaf area: 40%**

Yield results (estimated): A formula was used to calculate estimated fruit weight and final yield of the eggplant crop, based upon previous field studies.

Parameter	Control	Vitazyme
Fruit weight	200g	400g
Fruit yield*	40kg/plot	80 kg/plot

\*Based on 50 plants per plot and four fruits per plant

Conclusions: This eggplant study in Cuba proved that Vitazyme is an excellent stimulator of plant growth and development when applied twice during the growing season. Plant height was increased by 20 to 40%, and leaf area by 40%, with Vitazyme, leading to a doubling of estimated eggplant yield.