Vital Earth Resources
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2009 Crop Results

Vitazyme on Tea

Researchers: Wang Zhongyan, Hunan Horticultural Research Institute; Wang Xu, Luo Yi, and Kang Yankai of the Hunan Tea Research Instititute

Location: Hunan Tea Research Institute Research Orchard, Gaoqiao, Changsha, Hunan, China

Variety: Zhuyeqi *Tree age*: 8 years *Management*: standard

Experimental design: A tea orchard was divided into Vitazyme treated and untreated areas, each plot being 0.4 hectare. These treatments were repeated three times. The purpose of the trial was to evaluate the effects of Vitazyme on the growth and production of tea.

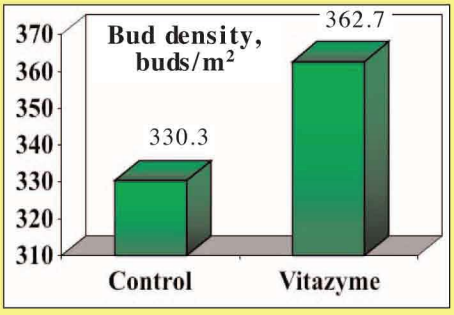
1. Control **2. Vitazyme**

Fertilization: unknown

Vitazyme applications: (1) 1.5 liters/ha sprayed on the leaves at early spring flush (March 14); (2) 1.0 lier/ha sprayed on the leaves at early summer flush (May 8); (3) 1.0 liter/ha sprayed on the leaves at early autumn flush.

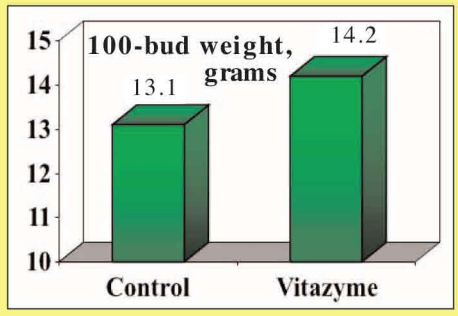
Yield and growth results:

Bud Density



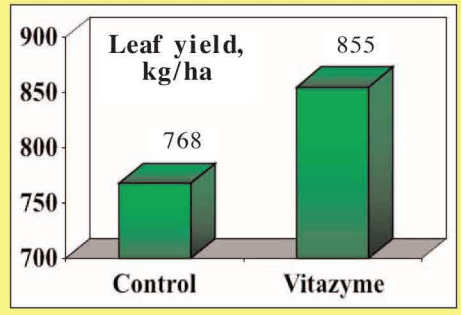
Increase in bud density with Vitazyme: 10%

Weight of 100 Buds



Increase in 100-bud weight with Vitazyme: 8%

Leaf Yield



Increase in tea leaf yield with Vitazyme: 11%

Income results:

Treatment	Income	Change
	------- RMB/ha ----------	
Control	46,080	—
Vitazyme	51,3000	5,220 (+11%)

Increase in income with Vitazyme: 11%

Conclusions: This Chinese tea study with Vitazyme revealed that the product caused an excellent improvement in the growth of new buds (+10%), and also of the size (weight) of the buds (+8%). These factors combined to produce an 11% increase in tea leaf yield, an excellent result for the benefit of China's tea industry. This benefit is especially noteworthy considering that Vitazyme improved grower return by 11%.

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2008 Crop Results

Vitazyme on Tea

Researcher: unknown
Variety: unknown
Planting date: established plantation
Location: Dong Hy, Thai Nguyen, Viet Nam
Soil type: gray soil of the midlands
Planting density: unknown

Experimental design: A portion of a tea plantation was treated with Vitazyme, and the remainder was left untreated, to determine the effect of the product on tea leaf yield.

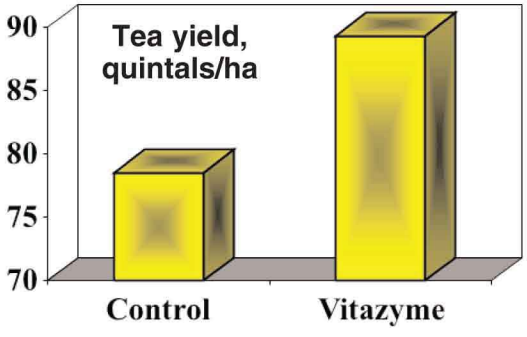
1. Control **2. Vitazyme**

Fertilization: unknown
Vitazyme application: unknown, but likely two 1 liter/ha applications by foliar spray, at unknown times
Harvest dates: cumulative yield over time
Yield results:

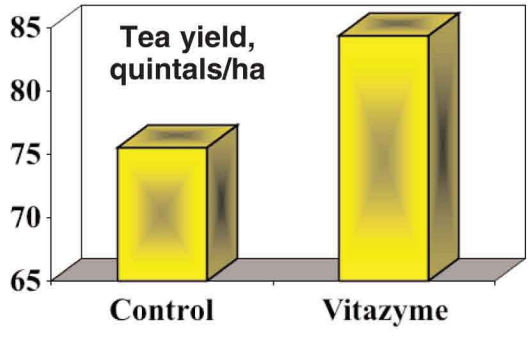
Plantation 1

Treatment	Leaf yield	Change
	quintals/ha	quintals/ha
Control	78.59	—
Vitazyme	89.34	10.75 (+14%)

Increase in tea yield: 14%



Plantation 2



Treatment	Leaf yield	Change
	quintals/ha	quintals/ha
Control	75.55	—
Vitazyme	84.40	8.85 (+12%)

Increase in tea yield: 12%

Income increase: Plantation 1 gave an income increase of 1,187,000 Vnd/ha.
Conclusions: These two tea trials with Vitazyme in Viet Nam gave excellent increases: 14% and 12% above the untreated controls. The 14% increase gave an excellent income increase of 1,187,000 Vnd/ha showing that Vitazyme is a highly viable tea amendment for Viet Nam.