



Tea with Vitazyme application—A Synergism Study with Three Products

Researcher: personnel of Loc Troi Group, Viet Nam

Research organization: Loc Troi Group, Viet Nam

Farmer: Bui Qui Phai

Location: Tan Phong Ward, Lai Chau City, Lai Chau Province, Viet Nam

Variety: unknown

Plant age: 40 years

Experimental design: A 1,200 m² portion of a tea plantation was treated with Vitazyme and two other products, and compared to an adjoining 900m² area that used the grower’s traditional program, to determine the effect of this program on tea yield and profitability.

① **Control**

② **Vitazyme + Boom + Silimax**



This tea trial in Viet Nam revealed how Vitazyme, along with two other products, gave an excellent 14% yield response, Note that the 25% yield response for the April 7 picking was due solely to Vitazyme.

Date	Vitazyme	Boom	Silimax
	1 liter/ha	1 liter/ha	?
March 1	x	o	o
March 22	x	o	o
April 9	o	x	o
April 17	x	o	o
April 23	x	o	o
May 11	o	x	o
May 17	x	o	o
May 24	o	o	x
June 14	o	x	o
June 6	x	o	o

All products were sprayed over the leaves on the appointed dates

Fertilization: unknown

Vitazyme application: 1 liter/ha sprayed at six times from March 1 to June 6, 2018

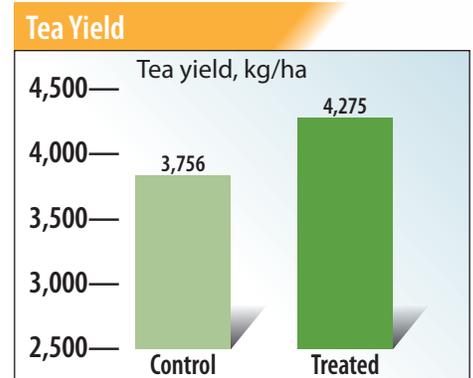
Boom F application: 1 liter/ha sprayed three times from April 9 to June 14, 2018. Boom F is a nitrobenzene plus trace mineral fertilizer.

Silimax application: an unknown application rate. Silmax is a 10% silicon product produced by HumaGro.

Yield results: Three harvests were made for the two treatments during the trial period, on April 7, May 11, and June 6, 2018.

Date	Tea Yield		Yield change
	Control	Treated	
	kg/ha	kg/ha	kg/ha
April 7	334	417	83 (+25%)
May 11	211	250	39 (+18%)
June 6	3,211	3,608	397 (+12%)
Total	3,756	4,275	519 (+14%)

Overall tea yield increase with Vitazyme + Boom + Silimax: 14%



Quality results: The quality of the tea was very good, eligible for export to the European Union.

Income results: The extra 519 kg/ha of tea was worth **8,500,000 VND/ha**.

Conclusions: A study on tea in Viet Nam, using six 1 liter/ha Vitazyme applications, three Boom applications, and a single Silimax application, over a three-month period resulted in a cumulative yield increase of 519 kg/ha over three pickings, which was 14% greater than the untreated control yield. This led to 8,500,000 VND/ha more income. These results demonstrate the considerable efficacy of this program to improve tea yields and profitability in Viet Nam, but it also shows that **Vitazyme alone produced the greatest harvest yield increase—25%—when only two applications of this product had been applied before the first harvest on April 7, and no other products had yet been applied.**

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 Institute

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

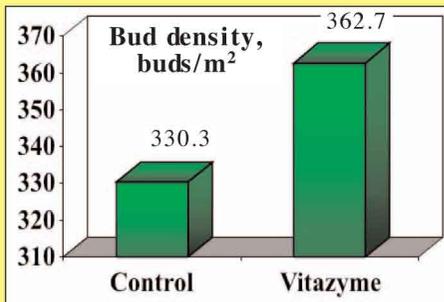
2. Vitazyme

Fertilization: unknown

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

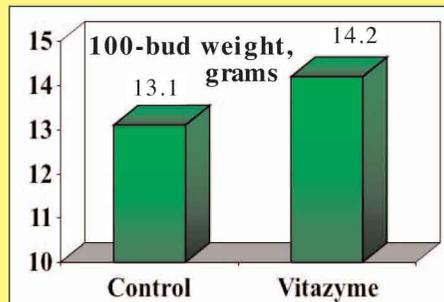
Yield and growth results:

Bud Density



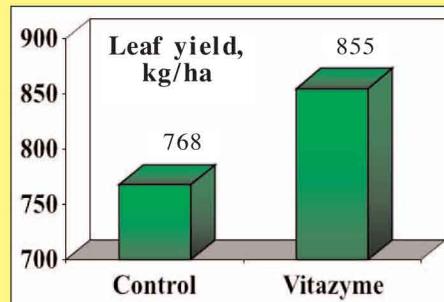
Increase in bud density with Vitazyme: 10%

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

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.

Location: Dong Hy, Thai Nguyen, Viet Nam

Soil type: gray soil of the midlands

Planting density: unknown

1. Control

2. Vitazyme

Fertilization: unknown

Vitazyme application: unknown, but likely two 1 liter/ha applications by foliar spray, at unknown times

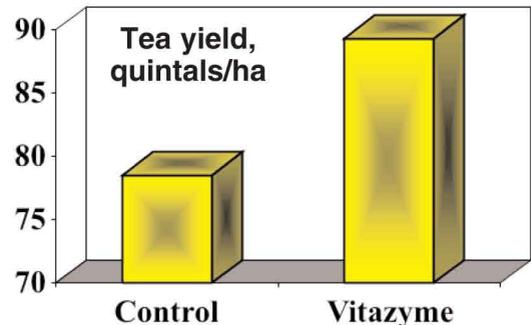
Harvest dates: cumulative yield over time

Yield results:

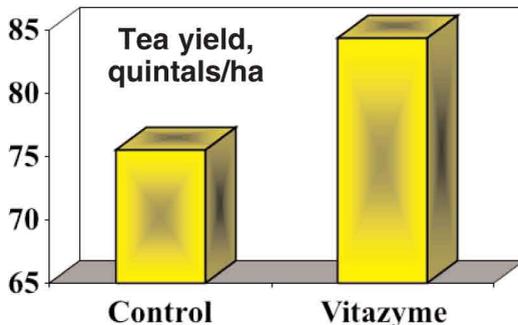
Plantation 1

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

Increase in tea yield: 14%



Plantation 2



Treatment	Leaf yield quintals/ha	Change 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.