Blackberries with Vitazyme application



Researcher: Agronomist Pedro Pablo Barrera Barrera

Grower: Pedro Pablo Barrera Barrera

Location: New Santa Rosa, Santa Rosa Department, Guatemala *Altitude:* 1,000 m

Variety: Tupy

Application

1

2

3

Blooms per year: 2.5

Plant age: 4 years

Experimental design: A blackberry planting was treated three times with Vitazyme on 0.7 ha to determine the effect of the product on berry yield and plant parameters.

1 Control 🛿 Vitazyme

DAD¹

30

45

75

Fertilization and Vitazyme application: See the table below. All applications were foliar.

Growth

stage

Vegetative

Pre-flower

and blossom

Fruit-set

Application rates²

Vitazyme Application rates¹

1 liter/ha

1 liter/ha

1 liter/ha

¹DAD = days after defoliation; ²Application volume was 571 liters/ha of spray solution. The water was corrected to pH 4.5 to 5.5.

Yield results:

Purpose of application

Stimulate elongation of shoots

Stimulate flower buds;

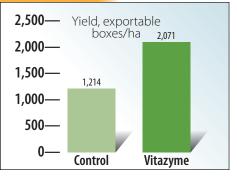
increase fruit set

Increase size and consistency of fruit

Treatment	Yield ¹ Yield change				
	boxes/ha	boxes/ha			
Control	1,214ª				
Vitazyme	2,071	857 (+71%)			
^a Yield of the previous crop					

Increase in yield with Vitazyme: 71%

Blackberry Yield



Application method: 16-liter sprayer Growth results:

- 1. Vitazyme did not damage the fruit in any way.
- 2. Chlorophyll levels were increased, and senescence delayed.
- 3. Plants were more vigorous and less susceptible to disease.
- 4. Flowering was stimulated and extended.
- 5. Fruit set was improved, achieving 32 buds per rosette.
- 6. Fruits were of greater size and weight.
- 7. Fruit uniformity was improved.
- 8. Non-productive male shoots were caused to differentiate into productive female shoots.

Conclusions: Three 1liter/ha foliar Vitazyme applications increased blackberry production by 71% in this trial. Besides, the fruit was of superior quality in terms of size and weight. The treated plants were also healthier, and tended to differentiate into productive female shoots.

/ita<mark>Earth</mark> 2015 Crop Results

Blackberries with Vitazyme application

Researchers: Lucero Fernandez

Farmer: Odilon Barragan

Research organization: Quimica Lucava

Location: Cieneguita Farm, Los Reyes, Michoacan, Mexico Variety: Tuppi

Experimental design: An area of 1 hectare in a blackberry field was treated with four Vitazyme applications to evaluate the effect of the product on berry yield.

Fertilization: Unknown

Vitazyme application: 1 liter/ha sprayed on the leaves about every 30 days,, on September 3, October 10, November 11, and December 2, 2014.

1 Control 🙆 Vitazyme

- Growth observations: Vitazyme produced the following:
 - More flowers and fruit
 - Higher quality fruit with a longer shelf life
 - Greater uniformity in the crop
 - Fewer rejects of fruit
- *Harvest date:* December 13, 2014, after about 100 days from the first application
- **Yield results:** The number of cases per hectare were counted for both areas.
- **Conclusion:** A blackberry trial with Vitazyme in Mexico showed that four monthly applications at 1 liter/ha each time, produced 9% yield increase, along with few rejected fruit. The treated crop was also more uniform, had more flowers and fruit, and produced higher quality fruit with a longer shelf life. All of these results point towards the great efficiency of Vitazyme for use with blackberries in Mexico.

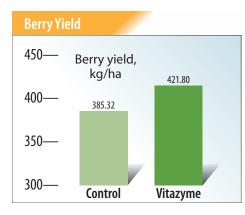
Treatment	Cases	Case weight	Total weight	Yield change	Rejects
	cases/ha	kg	kg/ha	kg/ha	kg/ha
Control	169	2.28	385.32	—	19.88
Vitazyme	185	2.28	421.80	36.48 (9%)	16.79



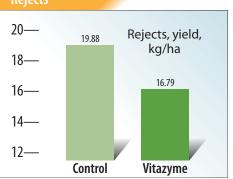
Untreated blackberries did not have the size and uniformity, nor the quality, of the treated fruit as seen in the accompanying photo.



Blackberries treated with four Vitazyme applications yielded 9% more fruit than the control, which was of higher quality, more uniform, and which retained a longer shelf life.



Rejects



Increase in berry yield with Vitazyme: 9%

Decrease in rejects with Vitazyme: 3.09 kg/ha (16%)