



Lemons with Vitazyme application

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Research organization: Duwest Dominicana, Dominican Republic

Location: Nicolas de los Santos Farm, El Jobo, Padre de las Casas Municipality, Azua Province, Dominican Republic

Variety: Persian lemon

Experimental design: A lemon grove was divided into a 0.5 ha area and an adjoining area of similar size, with one parcel treated with Vitazyme and the other serving as an untreated control, to evaluate the effect of this product on lemon yield and quality.

① Control ② Vitazyme

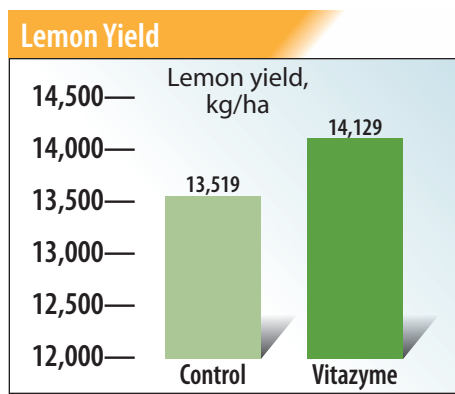
Fertilization: unknown

Vitazyme application: three 1 liter/ha foliar applications of Vitazyme from February to April, 2019

Yield results and observations: Four pickings from March to June, 2019, were totaled.

Treatment	Fruit yield lb/ha	Yield change lb/ha
1. Control	13,519	—
2. Vitazyme	14,129	610 (+5%)

Increase in lemon yield with Vitazyme: 5%



Quality observations:

- Larger fruit size and weight with Vitazyme
- Improved visual quality (color and shape) with Vitazyme
- No phytotoxic effects with Vitazyme

Income results: The added yield gave \$483/ha more income, and with a product cost of U.S. \$60/ha the extra income from the lemon crop was U.S. \$423/ha.

Conclusion: A Persian lemon trial conducted in the Dominican Republic in 2019, using three Vitazyme applications at 1.0 liter/ha each time, produced a 5% yield increase of higher quality fruit (sizes, weight, color, and shape), with no phytotoxic effects from the product. This yield increase gave the farmer U.S. \$423/ha more income. It was anticipated that future pickings would reveal a greater yield improvement for the Vitazyme treated area, and such data may be reported in the future. These results show the very good efficacy of this program for lemon production in the Dominican Republic.