



Olives Palm Crop Report Directory

Recommended Application Rates For Olives

**2009 Arbequina and Arbosana
 Santa Sara, Chile**



Application Rates for Olives

New Orchards

Use one of the following treatments:

- Root dip: Dip the bare roots in a 5% Vitazyme solution
or
- Root Drench: During or after planting, drench the root zone with a 1% solution
or
- Spray Vitazyme at 16oz/acre (1 liter/hectare) with first foliar or weed spray

After planting, apply Vitazyme at the rate of 16oz/acre (1 liter/hectare) at approximately 30-60 day intervals during the growing season, 4-6 applications total.

Non Bearing Blocks

Apply at the rate of 16oz/acre (1 liter/hectare) with herbicide or with first foliar applied spray, and again at approximately 30-60 day intervals.

Bearing Blocks

Apply 1-1.5 pints per acre (1-1.5 liters/hectare):

- To the soil at budbreak or foliar at first flush of growth in Spring
- At Early bloom
- At first cover spray, or 30-40 days after petal fall
- 30 days pre-harvest

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

706 East Broadway, Gladewater, Texas 75647
 (903) 845-2163 FAX: (903) 845-2262

2009 Crop Results

Vitazyme on Olives

Researcher: Jose Luis Cistenas

Administrator: Alejandro Apra

Research Organization: Society of Agriculture San Jorge Ltda, Santa Sara, Chile

Varieties: Arbequina and Arbosana

Soil type: unknown

Planting date: 2007

Experimental design: A young olive grove of 7.0 hectares was divided into a Vitazyme treated area and a control area to determine the effect of the product on tree growth. This growth was determined by trunk diameter.

1. Control

2. Vitazyme

Fertilizer applications: unknown

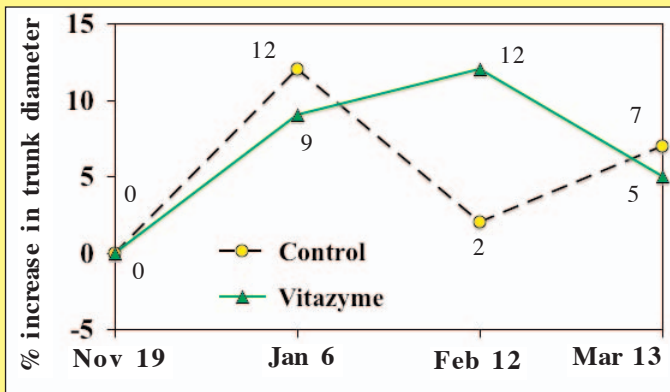
Vitazyme applications: (1) 1.0 liter/ha on the leaves and soil on November 6, 2008; (2) 1.0 liter/ha on the leaves and soil on December 15, 2008.

Arbosana Olives

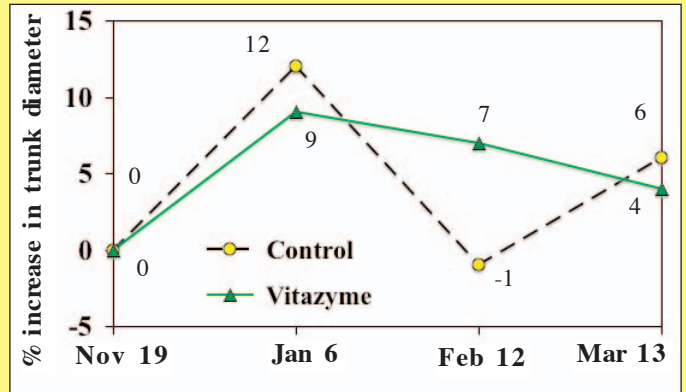
Arbequina Olives

Treatment	Trunk diameter				Change	Trunk diameter				Change
	Nov. 19	Jan 6	Feb. 12	Mar. 13		Nov. 19	Jan. 6	Feb. 12	Mar 13	
	----- cm -----									
Control	11.38	12.75	12.99	13.84	2.46 (+22%)	11.84	13.26	13.20	13.98	2.14 (+18%)
		(+12%)	(+2%)	(+7%)			(+12%)	(-1%)	(+6%)	
Vitazyme	8.68	9.47	10.62	11.12	2.44 (28%)	10.56	11.48	12.26	12.82	2.26 (+21%)
		(+9%)	(+12%)	(+5%)			(+9%)	(+7%)	(+4%)	

Trunk Diameter Change

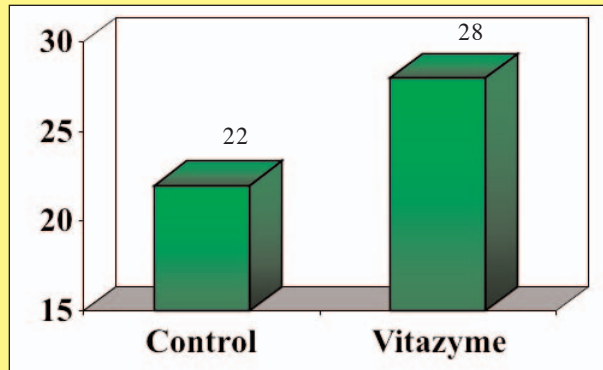


Trunk Diameter Change



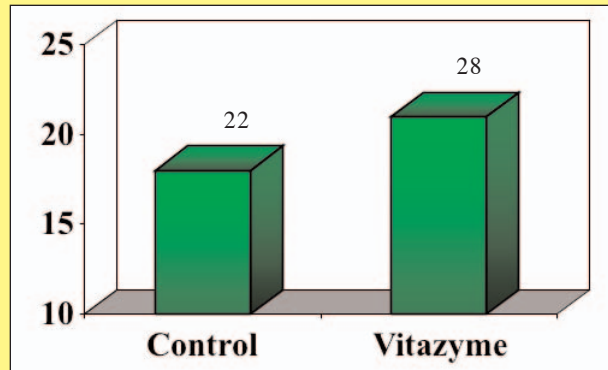
Arbosana Olives

Percent increase in trunk diameter



Arbequina Olives

Percent increase in trunk diameter



Improved increase in trunk diameter with Vitazyme

Arbosana olives	6%
Arbequina olives	3%

Conclusions: When Vitazyme was applied twice to olives at 1 liter/ha each time, the increase in trunk diameter with this product compared to the untreated control was 6% for Arbosana olives and 3% for Arbequina olives. These results show that Vitazyme is able to substantially improve olive growth and maturation in the Chilean environment.

