

MYCOSYM®

Mycorrhiza Vitalizer for Plant
 Mycorrhize Vitalisateur pour Plantes
 Micorriza Vitalizador para Plantas
 Μυκόριζα Βιοενεργητοποιητής για τα φυτά
 Micorriza Vitalizzatore per Piante



Mycorrhiza and Olive Tree Growth

Grove Data:

Location: "Pinar Viejo", Huévar del Aljarafe, Seville, Spain (37°20'17.00"N, 6°21'27.00"O)

Olive grove var. Arbequina of 9 Ha planted in March 2007 in a 2.5 x 6 m placement, using 9 months old nursery young trees.

At transplant, each other tree was treated with MYCOSYM TRI-TON® to form alternated lines of treated and non treated trees.

In one half of the grove the application rate was 10 g per tree, in the other one 15 g per tree.

As granules the product was deposited into the plant hole, before planting the young tree.

Results First Phase: Growth assessment 13 months after transplantation

Notation was made on April 15, 2008, by measuring the height of the tallest branch, as well as the trunk diameter at 35 cm above ground, in 4 different plots of each 100 trees (50 treated, 50 control).



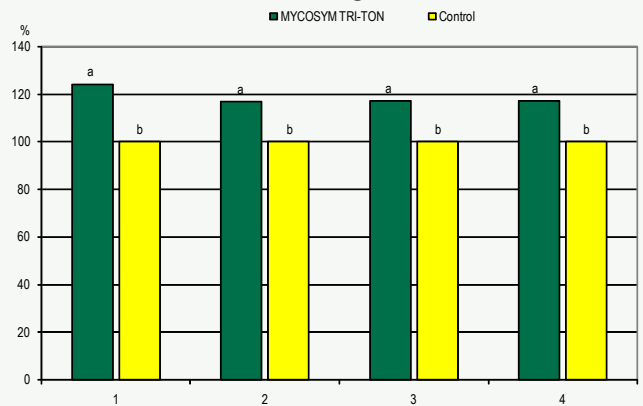
Control line

Line treated with MYCOSYM TRI-TON®

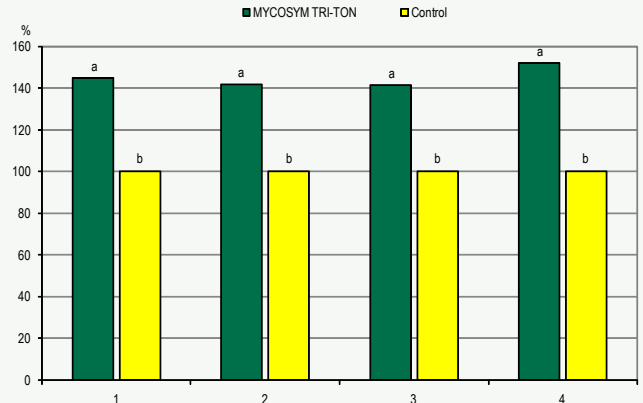


	Plot 1		Plot 2		Plot 3		Plot 4	
MYCOSYM TRI-TON®	no	10 g	no	10 g	no	15 g	no	15 g
Plants lost	0	0	10	4	9	1	14	2
Number of living trees, n	50	50	40	46	41	49	36	48
Average height, cm	108	134	100	117	105	123	99	116
Var. coef. %	17.0	11.7	14.0	20.0	12.6	15.1	16.0	13.6
Average trunk Ø, mm	12.7	18.4	9.8	13.9	11.1	15.7	9.6	14.6
Var. coef. %	26.1	22.1	29.2	39.6	24.0	32.4	31.0	33.3

Plant Height Increase



Trunk Diameter Increase



Conclusions at the end of the first year:

The establishment of the mycorrhiza symbiosis enables a plant height difference of up to 25%, and trunk diameter larger by up to 50%.

These differences are statistically significant.

No statistical difference results from the two application doses used.

A very significant plant loss reduction could be observed in this grove, where controls suffered a rather high loss rate.



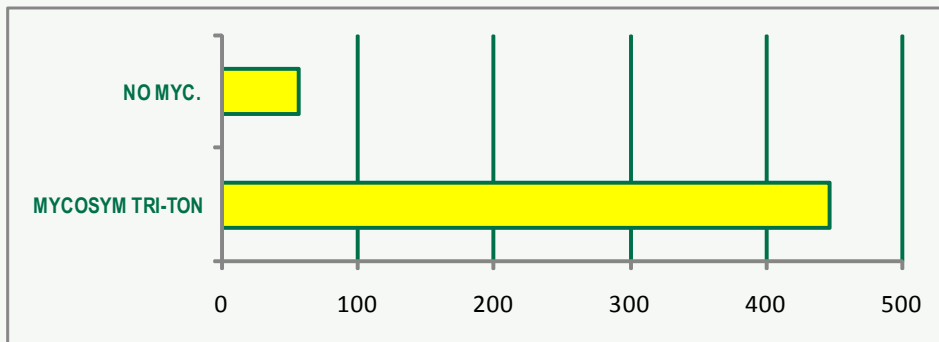
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Results Second Phase: First harvest

On November 14, 2008 (19 months after transplantation) the first harvest was made. Notation was made of the tree production within a plot of 100 trees, 50 having been treated with **MYCOSYM TRI-TON®**, the other 50 without treatment.

n=50	Fruit weight (g/árbol)	Production kg/ha	Trees without harvest	Dead trees
MYCOSYM TRI-TON	669	446	4 (8%)	1
NO MIC.	86	58	28 (56%)	2

Production (kg/ha)



Conclusions:

Mycorrhiza provides following benefits to the olive production:

- ✓ Vigorous and healthy tree growth, in particular during the first development phases
- ✓ Increased plant survival after transplantation
- ✓ Precocity: more buds, more fruits, leading to a significant production as early as in the 2nd year.

Additional known benefits from Mycorrhiza:

- ✓ Enhanced tolerance to stress conditions: drought, soil and water salinity
- ✓ Enhanced tolerance and recovery from plant diseases (soil pathogens, nematodes)

MYCOSYM TRI-TON® provides healthy and vigorous plants.

This example shows the coincidence of:

Obvious economic benefits

with

The sustainability of this crop.



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