



**PRODUCT INFO
& DATASHEET**

*High fruit yields every year with
SICOGREEN water soluble NPK 15-7-30 + 2MgO + CTE
for olive trees*

A 2-year study has proven that foliar application of SICOGREEN water soluble NPK 15-7-30 + 2MgO + CTE increases fruit yields and helps to prevent alternate fruit bearing.

SICOGREEN water soluble NPK 15-7-30 + 2MgO + CTE treatment offers an attractive benefit: cost ratio of 10!

A trial was carried out during the years 1999-2000, aimed to study the effect of foliar nutrition on the bearing performances of olive trees.

The plantation:

Olive cultivar Barnea (used for production of both table olives and oil)
Planted in 1992
Tree spacing 3x7 m
Average yield in the 3 years prior to the trial was 15 MT/ha/year.
Despite massive soil fertilization, deficiencies of macro- and micronutrients had been noticed.

Trees were treated with SICOGREEN water soluble NPK 15-7-30 + 2MgO+ CTE.

To study the effect of application timing, foliar nutrition was applied at 3 different phenological stages: at inflorescence, after fruit set or after stone hardening.

In order to test the effect of spray concentration, the fertiliser was applied at concentrations of 2% and 4%.

SICOGREEN NPK 15-7-30 + 2MGO + CTE application increased yields and helps to prevent alternate fruit bearing:

- * Foliar application of SICOGREEN at early stages of the season enhances fruit set and increases fruit yields.
- * SICOGREEN application at the stage of fruit development supports vegetative functions of the tree, thus creating the basis for high fruit yields in the following year.

Detailed results are shown on the reverse page.

Note: Only the results of plots sprayed with 2% SICOGREEN are shown, as increasing the spray concentration to 4% did not result in yield increase.

Recommended program for foliar feeding with SICOGREEN water soluble NPK 15-7-30 + 2MGO + CTE:

<u>Growth stage</u>	<u>Spray volume</u>	<u>Concentration</u>	<u>No. of treatments</u>	<u>Days between sprays</u>
Inflorescence	500-700 l/ha	1%-2%	1-2	10-14
Fruit development	500-1000 l/ha	1%-2%	2	14-21

- * The best time to spray is early in the morning or in the evening, when temperatures are lower. High temperatures and low humidity increase the susceptibility of the plants to injuries from sprayed chemicals. Crops under water stress conditions should not be sprayed.
- * The recommendations should be regarded as a general guide only. The exact fertilization program should be determined according to specific crop needs and the grower's experience.



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TRIAL RESULTS- OLIVES

1. SICOGREEN NPK 15-7-30 + 2MgO + CTE increases fruit yields

Figure 1 shows the effect of foliar application of 2% SICOGREEN water soluble NPK 15-7-30 + 2MgO + CTE on fruit set and fruit yield as measured in the second year of the trial.

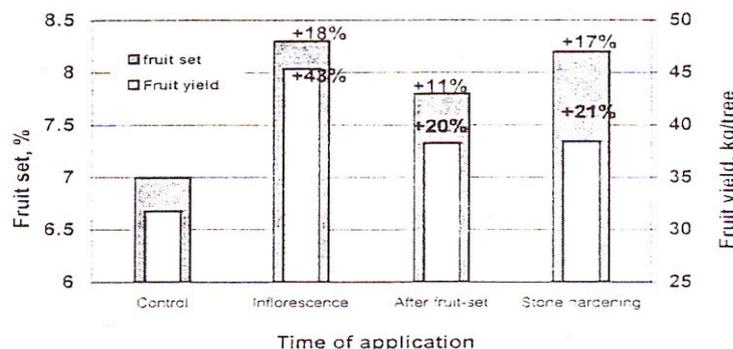
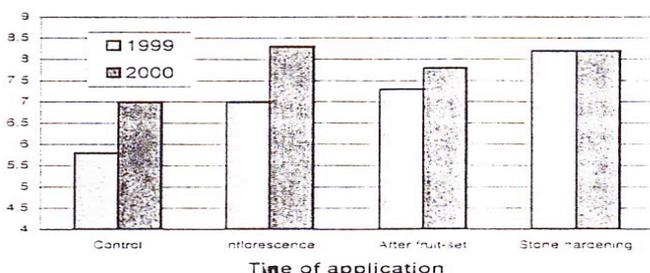


Figure 1

SICOGREEN NPK 15-7-30 + 2MgO + CTE application at all the 3 phenological stages tested significantly increased fruit-set and fruit yields compared to the control plot. The earliest application (before inflorescence) resulted in the highest percentage of fruit set, and consequently high fruit yields.

Figure 2 shows the effect of foliar application of 2% SICOGREEN water soluble NPK 15-7-30 + 2MgO + CTE on rate of fruit set measured on 2 successive years.



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The mean value of fruit-set rate for the experiment was highest where SICOGREEN was applied latest in the season (after stone hardening). Probably, foliar application of SICOGREEN at late stages of the season, when nutrients are translocated to the developing fruits, prevent deficiencies and balances the nutritional condition of the tree, thus creating the basis for high yields in the succeeding year.

2. SICOGREEN NPK 15-7-30 + 2MgO + CTE increases grower's profits

Yield increase:	2.0-4.0 MT/ha (11%-18%)
(+ potentially increased yield on the next year)	
Value:	1000-2000 USD/MT
Cost of treatment	50-90 USD/ha
Net benefit:	min. 910 USD/ha
Benefit / Cost Ratio	10

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