

TECHNICAL-APPLICATIVE DOSSIER, LIQUID FERTILIZER APPLICATION IN THE PRODUCTION OF INDUSTRIAL TOMATO- UMAGO, CROATIA

Technical-applicative tests have been realized in Croatia, through the analysis of productive and qualitative response of hybrid varieties of "Heinz 3402" tomato. Two liquid hydrolyzates with high amino acids content have been put in comparison: **EMOSPRINT®** and **VIGORAMIN® N8** with a concentration of 0,5% (500ml/100l water), 4 times during vegetation; 26.05.2019, 18.06.2019, 02.07.2019, 15.07.2019. Harvest and performance analysis have been performed on 20.08.2019.

Four plants were randomly sampled, in four different areas of the same analyzed thesis. From the plants, following data has been gathered: number of fruits, ripe fruits, green fruits and too-ripe fruits. At the end, all fruits have been counted and ripe fruits have been weighted. From each variety, a sample has been taken to analyze the average content of dry matter and other quantitative parameters.

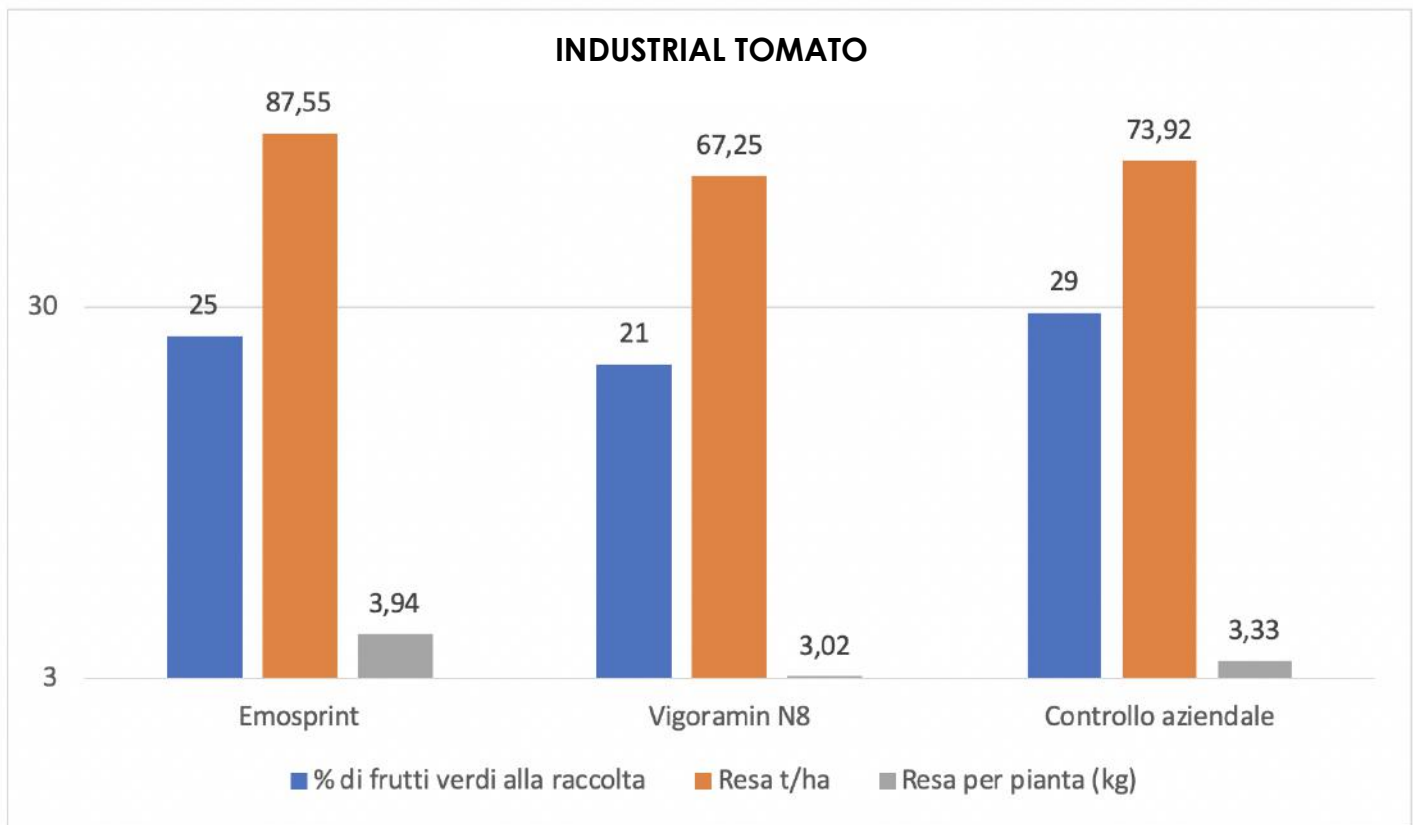


OUTCOMES

EMOSPRINT® has determined a significantly higher performance of ripe fruits, compared to inspections. Dry matter content, because of greater plant performances, showed a dry matter content which was just a little lower than checked fruits.

The number of ripe fruits for each plant (in relation to average weight) is the same as the ones in the non-treated operation; however, there is a slightly higher proportion in relation to ripe fruits: there are fewer green fruits and fewer too-ripe fruits.

For this reason, **EMOSPRINT®** is highly recommended in order to improve vegetative performances of plants during vegetative growth that, because of high energetic demand, can influence production and harvest. This is why we also recommend to combine **EMOSPRINT®** with **VIGORAMIN® N8**.



Treatment	N° of ripe fruits for each plant	% of ripe fruits during harvest	% of green fruits during harvest	% of too-ripe fruits during harvest	Average weight for each fruit	Plant performance (kg)	Performance t/ha	Dry matter content (%)
Emosprint®	70	74	25	0,7	55	3,940	87,555	4,97
Vigoramin®	77	77	21	1,3	51	3,027	67,259	5,16
Company control	70	70	29	1,2	55	3,3327	73,925	5,40

Company control: 04.09.2019

According to the experiments led in 2019, a positive effect on foliar application was registered thanks to **EMOSPRINT®** use on the performance and percentage of ripe fruits during the harvest of Heinz 3402 tomato hybrids.

Given climate peculiarities of the current year, in order to verify results, it would be correct to keep doing research in the experimental centers FOMET L@B and CFPN.

For practical purposes, thesis have been divided as well as use and application of the two products (**EMOSPRINT®** and **VIGORAMIN® N8**).

We recommend to intervene with both products at the same time. That means: use **EMOSPRINT®** in order to strengthen growth and plant performances, whereas the use of **VIGORAMIN® N8** will be focused on reducing the percentage of non-ripe fruits, to improve and anticipate uniformity in maturation.

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