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Effect of Yeast, Humic Acid, Fulvic Acid, Citric Acid, Potassium Citrate and Some Chelated Micro-Elements on Yield, Fruit Quality and Leaf Minerals Content of "Canino" Apricot Trees

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Abstract: This investigation was carried out during 2013 and 2014 growing seasons on "Canino" apricot trees grown in sandy soil conditions under drip irrigation located at El-Galatma, Berkash, Giza Governorate, Egypt. Aiming to study the effect of foliar sprays with active dry yeast at the concentration of 0.1%, 0.2, 0.3% and "mega power-x" as liquid organic fertilizer (19% Humic acid, 5% Free amino acids, 2% Fulvic acid, 2% citric acid, 2% potassium citrate and some chelated micro-elements) at concentrations 0.5, 1.0 and 1.5cm/L on yield, fruit quality; leaf minerals content leaf area and leaf pigments content.

Obtained results indicated that all treatments used were effective in increasing yield and fruit physical and chemical characteristics such as weight, dimensions and firmness, as well as TSS%, TSS/acid and total sugar %, were improved by different treatments used than the control. Whereas total acidity and number of fruit/one kilogram were decreased.

Furthermore leaf minerals content were significantly increased by different treatments than the control. Also, it was noticed that all treatments increased leaf area and leaf pigments content (chlorophyll a, b and carotenoids).

The best yield; fruit quality of canino apricot trees were obtained due to application of mega power-x at 1.5 cm/L at three times during full bloom, after fruit set and 3 weeks after fruit set.

Key words: Active dry yeast, liquid organic fertilizer, Humic acid, Fulvic acid, citric acid, potassium citrate, Amino acid, canino cv. Apricot fruit quality, leaf mineral content.

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