

Effects of Chemical and kind of organic fertilizer on quantities characteristics of three varieties of musk melon yield cultivated in the Gypsiferous soil .

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ABSTRACT

A field experiment was conducted using a split plot design in a Randomized Complete Block Design (RCBD) using three replicates for each combination in the vegetative research station, Department of Horticulture, College of Agriculture, University of Tikrit. The study was aimed at investigating the effects of varieties and the Organic fertilizer on quantities characteristics of Musk melon yield cultivated in the Gypsum soil. The experiment was performed using Three varieties of Ananas (one foreign and two local varieties Khateh-Nafsa and Khadhrawi), and six Levels of organic fertilizer (NPK 200kg/ha, NPK 200Kg/ha +4Ton of decomposed Cow manure, NPK200Kg/ha+4Ton of decomposed Sheep manure, NPK 200 Kg/ha +4Ton of decomposed Poultry manure, NPK 200Kg/ha +8Kg/ha Humic and the control group)

The results Obtained showed a significant differences between varieties in most of the traits studied. The Khateh-nafsa and Khadhrawi surpassed the foreign variety for early yield and weight, length and the fruit diameter, whereas the Khateh-Nafsa variety and the foreign Anasa were superior in yield/ha, number of fruits when compared with the Khadhrawi variety. The effect of animal organic 200 Kg/ha was found to be significant for early yield (day) yield(T/ha) and the fruits number whereas the control treatment recorded a higher value for fruits weight. Non-significant effect of organic

fertilizer on both the length and the diameter of the fruit was found. Besides a non-significant interaction effect regarding all the trials studied was also recorded.