THE EFFECT OF AGRICULTURE METHODS AND PLANT DENSITY ON GROWTH AND YIELD OF GARLIC (*ALLIUM SATIVUM* L.) BY USING OF IRRIGATION DRIP SYSTEM IN A GYPSIFEROUS SOIL

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ABSTRACT

A field experiment was conducted in College of Agriculture / Tikrit University during 2010 – 2011 season ON Garlic (*Allium sativum* L.) to study the effect of two methods of agriculture (raw and plot) and three treatments of plants density (300000, 600000, 900000 plant / ha), The experiment was factorial according to split plot design with three replication results showed that was significant increment in agriculture method on raw significantly on plot in each head diameter, cloves weight, percentage of dry matter in cloves, head weight and total yield characters. whereas the plant density showed (300000 plant/ha) significant increment in all yield characters except the total yield character, The increment of plant density was (900000 plant/ha). The interaction between agriculture method on raw with plant density of 300000 plant/ha significant increment in most studied characters except the total yield which increased on raw with plant density of 900000 plant/ha which there was not any significant difference in the interaction of every leaves number and percentage of cloves dry matter.

Keywords: Garlic, Agriculture Methods, Plant Density.