

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

Hazim A. Mahmood*

Ghassan J. Zedan**

Kutaiba Y. Aaid**

* Assist.. Prof. - Crop Sciences Dept. – College of Agriculture – Univ. of Tikrit . Plant 2010@yahoo.com

**Lecturer- Crop Sciences Dept. – College of Agriculture – Univ. of Tikrit .

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.