

QUALITY EFFECT OF ORGANIC FERTILIZERS ON SOME SOIL PROPERTIES, GROWTH AND YIELD OF GARLIC (*ALLIUM SATIVUM* L)

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ABSTRACT

The aim of the study is to determine the effect quality of organic fertilizers kinds and their interaction on some soil properties and garlic plant growth .The experiment was conducted during winter season 2011. Plastic pots were filled with soil. Organic fertilizers have been added at rate of 2% weight of dry soil. The experiment include the treatment (100% poultry manure,100% cow manure,100% sheep manure, 50% poultry manure +50% cow manure, 50% poultry manure + 50% sheep manure, 33% poultry manure +33% cow manure +33% sheep manure and control (without any addition), Each pot was planted with 3 garlic cloves and irrigated to the field capacity. The result showed a decreasing of bulk density while mean weight diameter of aggregate and available water were increased with addition of organic fertilizer compared with control, also the results indicated that some plants growth properties such as plant height, mean weight of bulb and number of cloves in each bulb were increased under favorable treatment and their interaction as compared with control.

KEYWORDS: Organic Fertilizer, Soil Properties, Garlic