EFFECT OF ORGANIC NUTRITION WITH FOLIAR SPRAYING IN GROWTH AND YIELD FOR FOUR GENOTYPES OF SWEET PEPPER *Capsicum annuum* L.

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ABSTRACT

Implemented a field experiment in the area of AL-Salam- Diyala province during the growing season in 2013 to study the effect of genotype and fertilizer liquid organic in growth and yield, and included workers; first cultivation of four genotypes of sweet peppers, imported recently to Iraq, E 41 Dutch origin of the company Enzazaden; Louay The source of the company imported Al-Reef AI-khadra Baghdad; Denver comes from Holland; Gedeon and originating from India, and the second Foliar nutrient and organic ensures acid of Humic concentration of 75 ml per 100 liters of water which is produced by Humin Tech German, and compost vegetable Alga cefo 3000 concentration of 300 g / 100 liters of a production company Sipho Italian, and treatment comparison (sprayed with distilled water only). Applied according to experience cutting system dissident Split plot in randomized complete block design (RCBD) and contained 12-treatment and three replications. Seedlings planted permanent place on 23 \ 3 \ 2013, and use a drip irrigation system. Seemed to spray fertilizer after two weeks of Agriculture and adopted at a rate of one workshop in every ten days to the end of the crop. The results showed marked by genotype Denver qualities along the germination and the number of branches and number of fruits and average fruit weight and yield / plant and total yield, while characterize genotype E41 qualities stem diameter and average fruit weight and percentage of total soluble solids and vitamin C, and characterize the genotype Louay qualities plant height and thickness of the leg. Excelled pepper plants treated manure Alga cefo 3000 qualities yield / plant and total yield and average fruit weight and the proportion of total dissolved solids and vitamin C, Panama characterized treatment plant fertilizer Humic length of the plant, number of branches and stem diameter and number of fruits.

Key words : pepper, organic fertilization, foliar spraying, yield.

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