

THE EFFECT OF SPRAYING BY SOME ORGANIC NUTRIENTS AND GROWING UP MANNER ON THE CHARACTERISTICS AND COMPONENTS OF GROWTH AND HARVEST OF THREE HYBRIDS OF CUCUMBER UNDER PROTECTED CULTIVATION CONDITIONS.

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ABSTRACT

The field experiment has been accomplished during the 2012-2013 season, in the new Baquba plantation, which belong to directorate of agriculture Diyala. This experiment aimed to study the effect of three cultivars, two breeding methods, and three types of fertilization, on yield characteristics of cucumber plant. The experiment includes 18 treatments of matching of three hybrids of cucumber that (AS2, AS1, and BF372), two growing up manners (one stem and two stems), and three types of fertilization (plant organic fertilizer, animal organic fertilizer, and the spraying by the distilled water only). The experimental has been carried out according to the split- split plot design (S.S.P) in R.C.B.D with three replicates, Significant differences between the test according to averages less significant difference between the arithmetic averages LSD and the level of potential 0.50. Results showed that superiority hybrids AS1 bred on one stem and fertilizer organic livestock in the rate of plant height and recorded 3.88 m while the fertilizer organic vegetable recorded plants the same hybrid and method of breeding shorter length of Pacifism it reach to 6.13 cm, While, the same hybrids with Organic fertilizer and two stems had the top of content of chlorophyll (54.50%). Also outperformed plants hybrid BF372 bred on two stems and organic fertilizer plant in the average number of days the flowering in 50% of the plants, which reached to 40.33 day and it yield recorded 12.89 tons / plastic house.

Keywords: cucumber, organic fertilizer, Breeding, production .