

**THE EFFECT OF SPRAYING BY SOME ORGANIC NUTRIENTS AND GROWING UP MANNER ON THE CHARACTERISTICS AND COMPONENTS OF 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 is to study the effect of three cultivars, two training methods, and three types of fertilization, on yield characteristics of cucumber plant. The experiment includes 18 treatments of matching of three types 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 pieces design (S.S.P) more than one time in R.C.B.D system and three replicates, Results showed that BF372 cultivar which grown up with two stems and fertilized by an organic fertilizer gave the highest quotient of the plant and unit area. It reaches 5.116 Kg and 25.58 Kg respectively, while the AS2 plat type that grown up with two stems and fertilized by an organic fertilizer plat has outperformed in extractors number rate to reach 41 extractor per plant, The AS2 type plants that grown up with one stem and fertilized with an organic fertilizer has outperformed in fruit length rate to reach 16.40 cm, while the BF372 type plants that grown up with one stem and fertilized with an organic plant fertilizer has outperformed in higher plant radius to reach 3.133 cm.

**Keywords:** cucumber, organic fertilizer, Breeding, production