

**استجابة نبات قرع الكوسة صنف رزان لإضافة المغذي النباتي Karma maxi
والرش الورقي بالحديد المخلبي داخل البيوت البلاستيكية org**

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**RESPONSE OF SQUASH PLANT Var. RAZAN TO
NUTRIENT SOLUTION ADDITION (Karma maxi org)
AND FOLIAR SPRAYING OF CHELATE IRON UNDER
PLASTIC HOUSES.**

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ABSTRACT

The experiment was carried out in one of the plastic houses of the research station belong to the Department of Horticulture and Landscape Design / College of Agriculture / University of Diyala during 2015-2016 season to know the response of squash plant (Var.Razan F1) of adding nutrient solution (Karma maxi org) with two concentration (10 and 15 mL⁻¹) and foliar spraying of chelate Iron with two concentration (1 and 3 g L⁻¹) on some of growth and yield traits under plastic houses conditions. The experiment included 8 treatments in addition to the control . A Randomized Complete Block Design (RCBD) was used with three replicates, therefore , the number of experimental units were 27 and each one included 10 plants. The results showed that (T8) treatment (chelate Iron (3g L⁻¹) + nutrient solution (15 mL⁻¹)) was superior in most of vegetative growth such as plant height, leaves number, leaf area, relative amount of chlorophyll present in plant leaves and dry weight of plant as recorded (22.85cm, 21.48, 1.91 m². Plant⁻¹, 40.10 SPAD unit, and 42.82g respectively) and it was not significant from other treatments. But all of these treatments are surpassed on control in leaves number, the control was less than average (18.96). Also, (T8) treatment was affected significantly in giving the highest percentage of number of male and female flowers, sexual ratio ,fruit number fruit weight, yield per plant, and Total yield, as recorded (14.22, 9.43, 1.5, 8.10, 200.06g, 1.620 kg.plant⁻¹, 2.72t.house⁻¹ respectively).

Keywords: NUTRIENT SOLUTION, CHELATE IRON, SQUASH ,PLASTIC HOUSES