

EFFECT OF LIQUORICE EXTRACT ON GROWTH AND YIELD IN ONION PLANTS C.V. TEXAS GRANO

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ABSTRACT

This study was conducted at the field of the Department of Horticulture – College of Agriculture – University of Baghdad – Abu Ghraib during the growing season (2005 – 2006) to study the effect liquorice extract spraying and applied this extract to soil on onion plant Texas Grano cultivar, The experiment include 9 treatments which were the interactions between three concentrations of liquorice extract spraying, [no spraying (S_0), 2.5 gm \ L (S_1) and 5 gm \ L (S_2)] and three levels of liquorice extract application without adding (G_0), 5 gm \ m² (G_1) and 10 gm \ m² (G_2)] ,Each treatment replicated three times in Factorial Experimental arrangement with RCBD . The experimental Results showed that interaction liquorice extract spraying and In addition to soil (S_2G_2) significantly gave the highest plant height of 63.08 cm , dry weight of Total vegetative of 5.91gm and the highest average bulb weight of 187.6 gm and the highest yield of 72.58 ton / ha. While the lowest values of these parameters were found in the control treatment (S_0G_0). The neck diameter of the bulb did not affected by liquorice extract spraying and addition to soil treatments.

Key words : liquorice extract , onion , extract spraying .