

**EFFECT INTENSITY OF AGRICULTURE AND THE SIZE OF THE BULBS IN  
SOME CHARACTERES FOR GROWTH AND YIELD FOR TWO VARIETIES  
OF ONION (*Allium cepa* L.)**

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**Abstract**

Field experiment carried out in the Department of Horticulture and landscap Research Station at the Faculty of Agriculture / University of Diyala during the growing season 2014 / 2015, to study the effect of the size of the bulbs and the intensity of agriculture in some characteres for growth and yield two varieties of onion. Experiment included 12 treatments is a combinations between the two varieties of onion, (Texas early erau and Texas grano) and three sizes of bulbs used in agriculture ( $3.5 \pm 0.5$  g ,  $6.5 \pm 0.5$ g and  $9.5 \pm 0.5$  g) with two intensity for agriculture ( 66 plant.  $m^{-2}$  and 44 plant.  $m^{-2}$ , experience applied in accordance with SSP dissident in the design RCBD and three replicates, The data were tested by Least Significant Difference (L.S.D) at 0.05 level of probability.

The study results showed significant effect of the variety, which was characterized by plants Class Texas early erau the largest number of leves and best of demtar to the neck of the bulb. Texas grano gave best length of the plant, leaves and larger size of the head and the large total yield and less number of double bulbs. The results showed significant effect of the intensity of Agriculture, the plants cultivated intensity 66 plant. $m^{-2}$  best lenght for the plant and the greater the length of the leave and the highest total yield and the lowest percentage of double bulbs, while cultivated plants characterized by intensity with 44 plant. $m^{-2}$  largest number of leves and the longest diameter of the neck onion and the larger size of the head. The size of the bulbs significant effect where characterized resulting from planting bulbs plants is small in size (3.5g) at the best length for plants and

less number of double bulbs, while characterized by plants resulting from the cultivation of large bulbs (9.5g) the largest number of leaves and the largest length of the leaves and the largest diameter of the neck onion and the larger size head and the highest total yield.

Key words: onion, bulbs size, agriculture intensity , yield .