

EFFECT OF SPRAY HUMIC ACID ON THE YIELD AND QUALITY OF TWO CULTIVARS POTATOES .

Amer Abdullah Hussein AL-Juboori

Abdullah Mohammad Salem .

***Hort. Dept. - College of Agric and Forestry – Mosul Univ. – Iraq.**

ABSTRACT

This experiment was conducted in the field at the College of Agriculture and Forestry / University of Mosul during the spring season, 2010 and included the experience to study the effect of two potato cultivars(latona and santa) and spraying with three levels of humic acid (zero, 1.5, 3, 4.5 cm³/L) and carried out the experiment design RCBD within the split plot with three replicates. The results showed no significant differences between cultivars for all characteristics studied except for plant height and number of leaves where latona cultivar was superior over santa cultivar, The effect of humic acid was significantly below the level of (3 cm³/L) in plant height, number of leaves, leaf area and tuber diameter, weight and yield marketable where he excelled at the comparison in the number of air stems, yield plant, at the level of spraying (4.5 cm³/L), while superiority the level of spraying (1.5cm³/ liter) in the length of the tuber at the level of spraying (4.5 cm³ / liter). the interaction where he superiority Santa cultivar and the level of spraying (3 cm³/L) in the characteristics of plant height and leaf area per plant and the length of the tuber, diameter and weight of tuber and yield per plant from tubers and yield marketing, while superiority the comparison in the number of leaves and number of air stems, to cultivar latona, while gave latona cultivar under level of spraying (4.5 cm³/L) lower values to number of air stems. and the superiority of latona cultivar below the level of spraying (1.5 cm³ / L) to number of tubers per plant, Santa cultivar below the level of spraying (1.5 cm³/L) of the humic acid which gave lower values.