EFFECT OF SPRAYING GIBBERELLIC ACID AND NITROGEN ON TWO TYPES OF POTATOES VAR. ALASKA .

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ABSTRACT

The experiment was conducted in the field of Plant Production Department at Technical Institute in Mosul for the years 2010 and 2011 at the season-spring to study the effect of spraying gibberellic acid GA3 at different concentrations (0, 25, 50, 100) ppm and two levels of fertilizer nitrogen (20 and 40) kg / acre and two kinds of potatoes (full and cut in two halves) var. Alaska

The results showed that spraying growth regulator GA_3 concentration of 100 ppm led to a significant increase in the character of plant height and number of branches and number of tubers / plant and average weight of the tuber and yield per plant and total yield / donum and add fertilizer nitrogen rate higher led to a response studied, and the impact of the quality of potatoes has been shown that treatment of tubers fragmented significantly outperformed the full treatment of tubers per traits under study**.**

Interaction the overlap between growth regulator GA3 and nitrogen fertilizer and the quality of cultivated potatoes that sprayed growth regulator GA3 concentration of 100 ppm and a high level of nitrogen fertilizer 40 kg and cutting tubers significantly highest yield 6.954 tons /donum as compared with lowest yield 5.275 tons / donum per unit area .

Key words : potato , Gibberellic, nitrogen fertilizer , plant height , tuber weight .