The influence of GA3 and NPK fertilizer on the content of some chemical compounds of wheat plant grain.

تأثر حامض الجبريلين وسماد الـ NPK في محتوى بعض المركبات الكيميائية (Triticum aestivum L.)

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Abstract:

An experiment was conducted in the plastic house at Kalar Horticulture Station, Province of Sulaymania, during the growing season of 2006/2007. The soil was brought from one of the Kalar region fields. The aim of the experiment was to study the interaction between gibberellic acid at concentrations of (0, 25, 50, 75 and 100) ppm and two levels of NPK 18:18:18 which equal (40 and 80) kg/d equivalent to 0.32 and 0.64 gm/pot, on some chemical constituents of wheat plant grains.

Factorial experiment within completely randomized design (C.R.D) with three replicates was adopted. Means were compared using (L.S.D) at 0.05 probability level.

Results showed that, increasing GA3 concentrations and NPK levels significantly increased N,P,K and carbohydrate content in the grains of wheat plants. The interaction between 75 and 100 ppm GA3 with 80 kg/d NPK was positive giving the highest values of the studied characteristics.