The interaction effect of GA₃ and NPK fertilizer on some chemical compounds of wheat plant (Triticum aestivum L.)

Abstract:

The experiment was conducted in a plastic-house at Kalar Horticulture Station, Sulaimania Province during the growing season of 2006-2007 using pots filled with 4kg soil. The aim of this experiment was to study the influence of the interaction between GA₃ concentration (0, 25, 50, 75 and 100) ppm and two levels of NPK fertilizer (18-18-18) at rates of 0.32 and 0.64 gm/pot equivalents to 40 and 80 kg/Donum on N, P and K content as well as the protein percentage of wheat plant. Factorial experiment within a completely randomize design with 3 replicates was adopted. Means were compared using the least significant difference at 0.05 probability level. Results showed that, 75 ppm of GA₃ with 80 kg/Donum of the fertilizer gave the highest values of the studied traits in both sampling dates compared with other treatments.