The Effect of Mepiquat Chloride (Pix) and Soil Moisture on Growth and Yield of Two Cultivars Wheat

(Triticum aestivum L.)

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ABSTRACT

The study has been done in the greenhouse. It investigated the effect of two cultivars of wheat (Al-Iz and Eratom) shoots spraying with three
concentrations of growth retardants (zero, 500, 100 ppm) during tillering stage under three levels of soil moisture (25, 50, 75% field capacity) on some physiological characteristics, and yield. The experiment have been designed on the basis that it is factorial experiment and over completely Randomized Design (CRD) and the results obtained showed: growth retardants highly effective in reducing plant height, length of base interned and leaf area. The treatment of growth retardants reduced negative effect of soil moisture levels (25, 50, 75%) on (relative water content, chlorophyll, proline) and increasing appeared in the number of grains in spike which reflected in increasing of grains yield. on the other hand Al-Iz cultivar showed a good results in some of the important characteristics (relative water content, chlorophyll, number of grains /spike).