



Effects of GA₃ Application on Some of Qualitative and Quantitative Characteristics in Pistachio "Ohadi"

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Abstract

This study was conducted to assess the effect of gibberellic acid (GA₃) on morphological characteristics of pistachio fruits. The following parameters were evaluated; unfilled fruiting, the fruit fraction and yield. This research was carried out from 2007 till 2010 in a Split plot design with five concentrations of GA₃ (0, 2500, 5000, 10000 and 20000 mg/l) in four replications. The main plot was foliar application time (Dec. 15, Jan. 15 and Feb. 15) and subplot was GA₃ concentration on Ohadi cultivar. Results were analyzed by MSTAT-C program and the DMRT method was used for comparison of the means. The results has been showed significant differences between treatments which was compared to control ($P<0.01$). Highest yield (including fresh and dry pistachio) was calculated by 2500 mg/l of GA₃ at Jan. 15 and it was statistically significant compared to control at $P<0.01$. Highest fruit fraction (76.69%) and lowest unfilled fruiting (10.07%) were measured when GA₃ was treated in 2500 mg/l concentration.

Key word: Concentration, Yield, Ohadi, GA₃, Pistachio.

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