

عنوان مقاله:

The Effects of Different Levels of Salinity on Varieties of Mung Seed Germination in Pot Condition

محل انتشار:

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Abstract In order to investigate the effect of different levels of salinity on varieties of mung seed germination in pot conditions a research was performed in summer 2013 in the Research Laboratory of Agriculture and Natural Resources University of Ahvaz. These experiments were performed in factorial mode in the form of completely randomized designs with two treatments and four replications. The first treatment included hybrid VC6371A, hybrid VC6371B and local Parto varieties. The second treatment included different levels of salinity based on electrical conductivity (EC) of the medium including: zero (control), 16, 12, 8 and 4 ds/m. The analysis was performed in the pot. In these experiments the germination traits such as germination percentage (G%), rate of germination (ROG), mean daily germination (MDG), the mean time of germination (MTG) and daily germination speed (DGS). The results showed that the interactive effects of varieties and different levels of salinity have significant effect on most of the traits under study. Also the varieties and levels of salinity had significant effect on ROG and G% ($P < 0.05$). In this experiment the specific variables such as ROG and G% of Parto variety were higher than the hybrid varieties; thus germination of the local Parto variety had greater resistance than the mentioned varieties under high salinity. Thus this appropriate trait could have a significant impact on increasing the final yield of this variety. Key words: Parto variety, salinity, rate of germination, germination percentage, pot cultivation

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