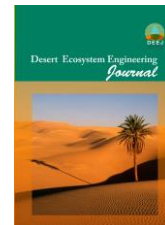




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## Effects of salinity and drought stress on germination two species of (*Agropyron elongatum*, *Agropyron desertrum*)

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### Abstract

The effect of various concentrations of drought and salinity solutions on germination of two species known as *Agropyron elongatum* and *Agropyron desertrum* were investigated according to factorial design. This investigation contains three repetitions, nine drought levels (0,2,4,6,8,10,12,14,16), and seven salinity levels (0,2,4,8,16,33,64). 50 seeds of any species were cultivated in Petri dishes on filter papers inside the germinator during each repetition. Test results show that the maximum germination in drought potential of 2 MP in *A. elongatum* species has been about 62/70 percent and the maximum germination in salinity potential of 0, in *A. desertrum* species has been 100 percent. As a result, it can be said that, according to the overall results obtained from this study, the *A. elongatum* species are more resistant against salinity stress and drought stress, than other species.

**Keywords:** Seed Germination, Mannitol, Salinity Stress, Drouht Stress.

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