

عنوان مقاله:

Salinity tolerance indices in germination stage of two Species of Borage (*Borago officinalis* L. & *Echium amoenum* Fisch & C.A. Mey)

محل انتشار:

دومین همایش بین المللی شورورزی (سال: 1398)

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خلاصه مقاله:

This study conducted in laboratory condition with two species of Borage (*Borago officinalis* L. and *Echium amoenum* Fisch & C.A. Mey.) and seven levels of salinity including tap water as control, 3, 6, 9, 12, 15 and 18 dS.m⁻¹ of NaCl. This experiment was carried out in a completely randomized design with three replications and germination percentage, root length, shoot length, seedling length and weight were measured. Results showed that increasing salinity had a significant effect ($P \leq 0.01$) on all germination traits. The rate of reduction of the desired traits was also different between the two studied species. Salinity threshold value at germination stage for Iranian (*E. amoenum*) and European (*B. officinalis*) species was 2.21 and 3.04 dS.m⁻¹, respectively. Also, salinity that caused 50% reduction in germination was estimated to be 9.31 dS.m⁻¹ for Iranian species and 19.16 dS.m⁻¹ for European species. Therefore, we conclude that the European species is more tolerant to salinity than the Iranian species in the germination stage and will probably be more adaptable in saline conditions.

کلمات کلیدی:

salt stress, borage, species, salinity threshold value, slope

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