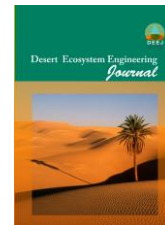




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Differentseed dormancy breaking methods on germination of forest plants *Prspopisjuliflora* and *Acacia victoriae*

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Abstract

With respect to physical dormancy of the legume family seed from the seed shell impervious to water. The effect of different treatments on seed dormancy and stimulate germination of *Prosopis* and *Acacia* have been investigated. Treatments for seed dormancy were breaking concentrated sulfuric acid 95% for 15 min, diluted with 50% sulfuric acid for 15 min, 95 ° C for 15 min and combination of with hot water containing sulfuric acid addition, hot water 95 ° C for 15 min and cold treatments. Also, the distilled water was used as control. The experiment was conducted in a completely randomized design with four replications. The results of the analysis of variance showed a significant difference dormancy breaking between treatments in the germination. The highest germination of *Prosopis* species (*Prosopis juliflora*) and *Acacia* (*Acacia victoriae*) treatments wasobtained in 98% of concentrated sulfuric acid and hot water treatments, respectively. According to the results, sulfuric acid and hot water the best and easiest methods to stimulate the seed germination of prosopis and *Acacia* respectively.

Keywords: *Prspopis Juliflora*, *Acacia victoriae*, seed dormancy, germination, sulfuric acid and hot water.

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