

Salinity Response of Some Cowpea Genotypes in Germination of Periods

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Abstract : The research was conducted to determine effects of salt concentrations on emergence of cowpea genotypes. Trials were performed during the year of 2014 on the laboratory of Agricultural Faculty, Selcuk University. Emergency trial was set up according to "Randomized Plots Design" by two factors and four replications with three replications. Samandag, Akkiz-86, Karnikara and Sarigobek cowpea genotypes have been used as trial material in this study. Effects of the five doses of salt concentrations (control, 30 mM, 60 mM, 90 mM and 120 mM) on the ratio of emergency, speed of emergency, average time for emergency, index of sensibility were evaluated. Responses of the cowpea genotypes for salt concentrations were found different. Comparing to the control, all of the investigated characteristics on the cowpea genotypes showed significant reduction by depending on the increasing salt application. According to the effects of salt application, the cowpea genotypes Samandag and Karnikara were the most tolerant in respect to index of sensibility while the Sarigobek genotypes was the most sensitive.

Keywords : cowpea, *Vigna sinensis*, emergence, salt tolerant

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