

**THE EFFECTS OF BACTERIAL (*Rhizobium spp.*) INOCULATION
ON SOME PLANT CHARACTERISTICS OF CHICKPEA AT
DIFFERENT GROWTH-DEVELOPMENT STAGES**

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ABSTRACT

This study was done to determine the effects of *Rhizobium spp.* inoculation for chickpea on some plant characteristics at different stages [(20th day, 40th day, and flowering (62nd day)] after the sowing. The research was carried out as a pot experiment and factorial design with five replications.

It was determined that bacterial inoculation had significant effect on total plant weight, root weight, weight of above-ground parts, number and weights of effective nodules, and nitrogen contents of root and above-ground parts at 40th and 62nd days (flowering). In addition, it was determined that bacterial inoculation had significant effects on all of the selected properties at flowering stage.

Key words: *Chickpea, bacteria, N₂ fixation, nodule.*