Effect of herbicides and fungicides on N₂-fixation and seed yield of soybean (cv. Williams)

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Abstract

The effect of herbicides and fungicides on N₂-fixation and seed yield of soybean (cv. Williams) was investigated. The experiment was conducted at the experimental farm of the University of Agriculture, Somerville, Iran in 1997. The experiment was laid out in a randomized complete block design with three replications. The treatments consisted of six levels of herbicides and fungicides, and the control treatment. The results showed that the application of the treatments significantly affected N₂-fixation and seed yield. The highest N₂-fixation and seed yield were observed in the treatment without the use of any herbicides or fungicides. The results also showed that the use of certain herbicides and fungicides could reduce N₂-fixation and seed yield. The most effective herbicides and fungicides were identified and recommended for the production of soybean in the region. The study also highlighted the need for further research to identify the most effective combinations of herbicides and fungicides for the production of soybean.