

عنوان مقاله:

Effect of Foliar Treatment of Micronutrients (Iron, Zinc, and Manganese) on Nitrogen Yield and Biological Fixation of Bami Alfalfa (*Medicago Sativa L.*) With Inoculation of Bacteria in Kerman

محل انتشار:

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خلاصه مقاله:

This study was carried out aimed to evaluate the effect of foliar treatment of micronutrients including iron, zinc, and manganese on nitrogen yield and biological fixation with inoculation of bacteria in the Bami alfalfa in order to obtain a cost-effective product within Kerman in ۲۰۱۳ and was implemented for two years in Shahid Zنده Rood agricultural education center in Kerman. The project was studied in an area of ۲۵۰۰ square meters using a split-plot design, with four replications and with the foliar treatment of micronutrients in ۵ levels (a level as a control), and inoculation of bacteria in ۳ levels (non-inoculated as a control group). In all treatments, the distance between the lines was ۳۰ cm, and all effects of the main factors and sub-factors on agronomic traits were analyzed statistically. Qualitative traits included plant height, yield, growth, and nitrogen fixation, and quantitative traits included the amount of protein, chlorophyll and pigments, digestibility, and the percentage of iron, zinc, manganese, nitrogen, phosphorus, and potassium. Overall, the survey results indicate that foliar treatment and inoculation had a significant impact on chlorophyll content and yield, and increased the amount of chlorophyll, protein, and the yield of Bami alfalfa.

کلمات کلیدی:

Bami alfalfa, bacteria inoculation, Foliar Treatment, Iron, Nitrogen fixation, Zinc

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