

Research Article

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Effect of foliar nutrition on growth, yield and quality of chickpea (*Cicer arietinum* L.)

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Summary

The field experiment was on effect of foliar nutrition on growth and yield of chickpea (*Cicer arietinum* L.). It was conducted during *Rabi* season in the year 2015-16 at the Research farm of College of Agriculture, Latur. The experiment was laid out in Randomized Block Design with three replications and variety “Vijay” as test crop along with eight treatments *viz.*, T₁-RDF, T₂-RDF+ water spray, T₃-RDF+ 19:19:19 @ 1.0 % at vegetative stage, T₄-RDF+00:52:34 @ 1.0 % at flowering stage, T₅-RDF+ 13:00:45 @ 1.0 % at grain filling stage and T₆-T₃+T₄, T₇-T₄+T₅ and T₈-T₃+T₄+T₅. The results of the field study indicated that, the growth, yield and quality of chickpea was significantly influenced by foliar nutrition. The growth parameters *viz.*, plant height, number of branches, number of pod plant⁻¹ and dry matter of chickpea were significantly improved due to treatment T₈ (RDF+ 19:19:19 @ 1.0 % at vegetative stage, RDF+ 00:52: 34 @ 1.0 % at flowering stage and RDF+ 13:00:45 @ 1.0 % at grain filling stage) however, it was followed treatment T₇ (RDF+00:52:34 @ 1.0 % at flowering stage and RDF+ 13:00:45 @ 1.0 % at grain filling stage). Yield contributing characters *viz.*, seed yield, straw yield and biological yield were also increased significantly with application of foliar nutrients as per T₈ (RDF+ 19:19:19 @ 1.0 % at vegetative stage + RDF+ 00:52: 34 @ 1.0 % at flowering stage + RDF+ 13:00:45 @ 1.0 % at grain filling stage) over rest of the treatments followed by treatment T₇.

Key words : Chickpea, Foliar nutrition, Growth, Yield, Quality

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