



Effect of application of zinc on yield and yield attributes of chickpea genotypes in calciorthent soil

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Abstract : A field experiment was conducted in calciorthent soils at Tirhut College of Agriculture, Research Farm, Rajendra Agricultural University, Pusa (Samastipur) Bihar, India to screen chickpea (*Cicer arietinum* L.) genotypes against zinc stress. The treatment included eight genotypes from tolerant, moderately tolerant and susceptible groups, and three levels of zinc application (0.0, 5.0 and 10.0 Zn/ha) in three replicates in a split plot design with zinc in main plots and genotypes in sub-plots. The result indicated that the yield of seed and straw of tolerant genotypes in control plots exhibited higher values. The similar result was also obtained in case of pods per plant, seeds per pod and test weight. The values increased on zinc application in moderately tolerant and susceptible genotypes. The higher total uptake of zinc was observed in tolerant genotypes in control plots.

Key Words : Chickpea, Calciorthent, Zinc stress

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