

Response of Chickpea Varieties to Phosphorus Application

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ABSTRACT

A field experiment was conducted during *rabi* 2009-10 with 3 varieties of chickpea viz., Annigeri, JG-11 KAK-2 with 4 levels of phosphorus (0, 25, 50, 75 kg ha⁻¹) tested in a factorial randomized block design. The results revealed that KAK-2 showed maximum plant height (17.1 28.5 and 32.2 cm), at different stages and produced significantly maximum primary, secondary branches, number of pods per plant(54.7), test weight(19.9 g) and grain yield(1301 kg ha⁻¹). Application of 50 kg P₂O₅ ha⁻¹ resulted in significantly higher pods per plant and seed yield compared to other levels of phosphorus application. The phosphorus, nitrogen and potassium nutrient uptake also significantly higher by KAK-2 variety similarly significant nutrients uptake was found with the application of 50 kg P₂O₅ ha⁻¹.

Key words : Nutrient uptake, Phosphorus levels, Pods, Seed Yield, Test weight, Varieties.