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RESEARCH PAPER

Nutrient uptake, yield and protein content of chickpea (*Cicer arietinum* L.) as influenced by irrigation and sulphur levels in medium black soils

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Abstract : A field experiment was carried out at Junagadh Agricultural University, Junagadh, Gujarat during *Rabi* 2010-11 to study the nutrient uptake, yield and quality of chickpea as influenced by irrigation and sulphur levels. Irrigation and sulphur have shown significant influence on growth, yield, nutrient uptake and protein content of chickpea. Among four irrigation schedules, irrigation scheduled at 0.9 IW/CPE ratio recorded significantly higher values for nutrient uptake, grain and stover yield, protein content and BCR which was at par with 0.7 IW/CPE ratio. As for as sulphur levels are concerned application of 40 kg S ha⁻¹ recorded significantly higher nutrient uptake, grain yield, protein content and BCR and was at par with application of 20 kg S ha⁻¹. However, interaction between sulphur and irrigation levels, 20 kg S ha⁻¹ and 0.7 IW/CPE recorded higher seed yield and net returns.

Key Words : Chickpea, IW/CPE ratio, Sulphur, Nutrient uptake, Yield, BCR

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