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RESEARCH PAPER

Nutrient requirement for bold seeded confectionery groundnut (*Arachis hypogaea* L.) under irrigated condition

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Abstract : A field experiment was carried out during the summer seasons of 2011-12, 2012-13 and 2013-14 at the Main Oilseeds Research Station, Junagadh Agriculture University, Junagadh to determine the optimum nutrient requirement for confectionery groundnut to obtain higher productivity and profitability on medium clay soil under irrigated condition. The experiment consisted of nine treatments viz., two nitrogen levels, two potassium levels, two levels of sulphur and control. Experiment was laid out in Randomized Block Design with four replications. Based on yield and yield components data, it was concluded that treatment N @ 50 kg/ha, K @ 50 kg/ha and S @ 40 kg/ha (T_8) with recommended dose of phosphorus (50 kg/ha) gave the highest pod yield of 2770 kg/ha and haulm yield of 4557 kg/ha with net realization (Rs.85112/ha) and B:C ratio (3.34) which was closely followed by N @ 50 kg/ha, K @ 25 kg/ha and S @ 40 kg/ha (T_6). It is, therefore, suggested that these doses of NPKS fertilizer should be recommended to the farmers in order to raise a healthy and good confectionery groundnut crop and ultimately get highest yields of pods.

Key Words : Groundnut, Confectionery, Nutrients requirement, Yield

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