

Study on nitrogen and sulphur fertilization to the green gram (*Phaseolus radiata* L.) under rainfed condition

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ABSTRACT : An experiment was carried out at Rajaula Farm of Mahatma Gandhi Chitrakoot Gramodaya Vishwavidyalaya Chitrakoot, Satna (M.P.) during 2010-11 on nitrogen and sulphur fertilization to moong crop. Observed data revealed that highest dose level of nitrogen (100% of N / ha.) and Sulphur (60 kg/ha) produced maximum number of pods upto 34.27 and 33.67 and maximum number of grain (8.71 per pod) , maximum test weight to the extent of 31.62 g was higher by 14.35 % over control (0 % N). The best interaction was also observed with 100 % N with 60 kg S / ha which resulted significantly higher test weight (32.36) as compared to all remaining interaction. It is apparent from the result that application of 100 % N recorded 39.08 and 21.69 % higher grain yield over 0 to 75% N and 0 to 50 kg S / ha. Remarkable increase in nodulation parameter at 100 % N and 60 kg S / ha. Variety PDM-139 produced maximum yield 1284.67 kg / ha in S₃ N₃ treatment (100 % N & 60 kg S / ha.) showing suitable adoptability in chitrakoot.

Key Words: Nitrogen , Sulphur , Fertilization, Green gram.