

RESPONSE OF *RHIZOBIUM LEGUMINOSARUM* INOCULATION WITH SULPHUR AND MICRONUTRIENTS ON GROWTH CHARACTERISTICS OF BLACKGRAM (*VIGNA MUNGO* (L.) HEPPER)

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Abstract: A field trial was conducted during the kharif season of 2002 and 2003 at the research farm of J.V. College, Baraut, to find out the role of *Rhizobium* with sulphur and micronutrients viz. Zn, Mo and B on the cultivar PU-19 and PDU-1 of blackgram. Application of *Rhizobium* along with S @ 60 kg/ha, Zn @ 4 kg/ha, B @ 0.6 kg/ha and Mo @ 0.1 kg/ha significantly increased the growth characteristics in both the cultivar of blackgram. Plant height, number of branches, number of leaves and leaf area increased to a great extent by the application of *Rhizobium* along with sulphur and micronutrients.

Keywords: Blackgram, height, branches and leaves

REFERENCES

Anderson, O.E. 1964. Micronutrients and Crops.

Georgia Agric. Sta. Bull 126 : 33-41.

Kumar, P.; Saraf-C.S.; Subhash, C. and Rowal, S., 1999. Performance of greengram and blackgram as influenced by weed management and sulphur fertilization. *Ann. Agril. Res.* 20 (1) : 69-72.

Singh, U. and Yadav, D.S. 1997, Economics of summer green-gram cultivation as influenced by S and Zn level. *legume Res.* 23 (1) : 67-68.

Srivastava , G.C. and Ali, M. 2004. Nutritional quality of common pulses. *Hindu survey of Indian Agri.* pp: 33-37.

Subba Rao , M.S. and Tilak, K.U.B.R. 1977. *Rhizobium* culture, their role in pulse production, Souvenir Bell Directorate of pulses, Deptt. of Agri., Gov. of India, Lucknow. pp: 31-34.

Tondon, H.L.S. 1986. Sulphur research and development in Indian agriculture. *Ferti. News.* 31: 9-16.