



RESEARCH PAPER

Effect of phosphorus and PSB on growth, nodulation and fertility status in different mungbean (*Vigna radiata* L.) varieties and its residual effect on fodder yield of sorghum in indo-gangetic plain zone of India

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Abstract : A field experiment was conducted during summer and *Kharif* season of 2010 and 2011 at research farm of A. S. (PG) College, Lakhaoti, Bulandsahar, U.P. to study on phosphorus and PSB management in different varieties of summer mungbean and its effect on succeeding fodder sorghum. The experiment was laid out in a Factorial Randomized Block Design (FRBD) keeping three-treatments of bold seeded green gram varieties (Pant-moong-5, Pusa Vishal, Pusa 9531) of in main plots and six treatments of phosphorus and biofertilizers in sub-plots. Results revealed that the different varieties of mungbean to phosphorus upto 50 kg P₂O₅ ha⁻¹ and inoculation of seed with PSB (25 kg ha⁻¹) increased the plant height (49.13 and 51.15 cm), number of nodules plant⁻¹ (17.35 and 16.50) and availability of nutrient N (361 and 364 kg ha⁻¹), P (13.23 and 13.36 kg ha⁻¹) except K and green fodder yield (546 q ha⁻¹ at harvest time) of succeeding fodder sorghum crop.

Key Words : Availability, Biofertilizers, Mungbean, Phosphorus, Sorghum, Yield

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