New Agriculturist, **23**(2) : 133–137, 2012

Effect of phosphorus, sulphur and PSB on growth, yield and nutrient content in blackgram (*Phaseolus mungo*) and on soil properties

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Received May 22, 2012 and Accepted August 24, 2012

ABSTRACT : A field experiment was conducted at Soil Science research plot of Allahabad Agricultural Institute-Deemed University, Allahabad, to study the effect of phosphorus, sulphur and PSB on growth, yield and nutrient content of black gram. The crop growth, yield and nutrient content increased significantly with increasing levels of nutrient application. Application of 60 kg P_2O_5 /ha recorded maximum plant height (cm), no. of leaves/plant, no. of nodules/plant, dry weight of plants (gms), yield (grain, straw), phosphorus, sulphur and protein content in grains of blackgram as compared to lower levels. Sulphur @ 40 kg/ha recorded maximum growth, yield and nutrient content in comparison to other levels. While as inoculation of blackgram seeds responded positively as compared to without inoculation.

Key Words: Blackgram, phosphorus, sulphur, PSB nutrient content