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RESEARCH ARTICLE:

Split application of nitrogen, phosphorus and potassium for enhancing yield of soybean on inceptisol

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Inceptisol, Spilt application of NPK, Soybean yield

SUMMARY: The field experiment on soybean grown on Inceptisol was laid out in a Randomized Block Design with the nine treatments and three replications at Central Research Farm of Post Graduate Institute, Mahatma Phule Krishi Vidyapeeth, Rahuri – 413 722 Dist – Ahmednagar during *Kharif* 2012. The results revealed that, the growth parameters viz., root nodule counts (19) were observed in treatment T_6 (application of 50:75:25 kg ha⁻¹ in two splits-50% $N_1P_2O_3$ and K_2O at sowing and 30 DAS) which was at par with treatment T_7 . The treatment T_7 (application of 50:75:50 kg ha¹ in two splits-50% T_7), grain yield (34.53 q ha⁻¹) and stover yield (44.04 q ha⁻¹) which was at par with treatment T_7 . The total uptake of NPK by soybean and available of nutrient in soil were significantly influenced by the split application of NPK and maximum total uptake and available of NPK in soil at harvest was observed in the treatment T_7 and it was at par with treatment T_6 . Thus, application of 50:75:25 kg NPK ha⁻¹ in two splits - 50% NPK at sowing and 50% NPK at 30 DAS was proved to be profitable for soybean cultivation on Inceptisol.

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