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Research Article

Performance of *Rabi* niger [*Guizotia abyssinica* (L.) Cass] influenced by phosphorus management

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ABSTRACT : Field experiments were conducted at the College Farm, N.M. College of Agriculture, Navsari Agricultural University, Navsari during *Rabi* season of 2010-11 and 2011-12. The increase in *Rabi* niger yields with these treatments were the results of increased growth and yield attributes *viz*., plant height, dry matter accumulation, capitula per plant and number of seeds per capitula, protein yield, oil content, the highest seed and straw yields of niger were recorded with 20 kg P_2O_5 ha^{-1} from SSP with PSM (T_6) and was at par with 10 kg P_2O_5 ha^{-1} from SSP + PSM (T_4), 10 kg P_2O_5 ha^{-1} from SSP + 100 kg RP ha^{-1} + PSM (T_8). These treatments were 43.87, 38.64 and 36.91 per cent higher than control (T_2) in respect of grain yield. Soil inoculation with PSM significantly increased the growth and yield attributes *viz*., plant height, dry matter accumulation, capitula per plant and number of seeds per capitula, thereby increasing the seed and straw yields of niger. Increased the net realization and benefit to cost ratio from niger crop was recorded with 20 kg P_2O_5 ha^{-1} from SSP with PSM (T_6).

KEY WORDS : Levels of phosphorus and different sources of phosphorus, Protein yield, Oil content, Seed and straw yield, Economics

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