



Research Article

Yield attributes and yield of fenugreek (*Trigonella foenum graecum* L.) under different levels of phosphorus, molybdenum and inoculation of PSB

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SUMMARY : A field experiment was conducted at Agronomy farm, College of Agriculture, Bikaner during *Rabi* season, 2010-11 on loamy sand soil to investigate the effect of phosphorus (0, 20, 40 and 60 kg P₂O₅ ha⁻¹), molybdenum (0.0, 0.5 and 1.0 kg Mo ha⁻¹) and PSB (without inoculation and with inoculation) on yield attributes, yield and seed quality of fenugreek (*Trigonella foenum graecum* L.). The application of phosphorus upto 40 kg P₂O₅ ha⁻¹ resulted in significantly higher number of branches per plant, chlorophyll content at flowering stage, nodules per plant, pods per plant, seeds per pod, seed and straw yield over their respective preceding levels (0 and 20 P₂O₅ ha⁻¹) but it was found at par with 60 kg P₂O₅ ha⁻¹ in respect to branches per plant, chlorophyll content at flowering stage, nodules per plant, pods per plant, seeds per pod, seed and straw yield of fenugreek. Among different levels of molybdenum, 0.5 kg Mo ha⁻¹ gave significantly higher branches per plant, chlorophyll content at flowering stage, nodules per plant, pods per plant, seeds per pod, seed and straw yield over respective lower level. PSB inoculation significantly enhanced the branches per plant, chlorophyll content at flowering stage, nodules per plant, pods per plant, seeds per pod, seed and straw yield of fenugreek. The test weight increased with the successive levels of applied phosphorus, molybdenum and PSB inoculation but difference could not reach the level of significance. The interaction effect of phosphorus × PSB was found significantly higher branches per plant, pod per plant and seed yield (1568 kg ha⁻¹) recorded with treatment combination 40 kg P₂O₅ ha⁻¹ + with inoculation of PSB which was at par with other treatment combination 60 kg P₂O₅ ha⁻¹ + with inoculation of PSB.

KEY WORDS :

Fenugreek, Interaction, Molybdenum, Nodules, Phosphorus, Protein, PSB, Yield

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