

Research Article

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Effect of vermicompost and phosphorus on nutrient content, uptake and quality in fenugreek (*Trigonella foenum graceum* L.)

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Summary

A field experiment was conducted on loamy sand soil during *Rabi* season of 2009-10 to study the effect of vermicompost and phosphorus on nutrient content, uptake and quality in fenugreek (*Trigonella foenum graceum* L.). Application of 4.0 t vermicompost significantly increased the nitrogen content in seed, protein content, nitrogen uptake in seed and straw. While application of 6.0 t vermicompost ha⁻¹ significantly increased the phosphorus content in seed, straw, phenol content, total nitrogen uptake, phosphorus uptake in seed, straw and total. Application of 2.0 t vermicompost ha⁻¹ significantly increased the nitrogen content in seed, straw. Application of 40 kg phosphorus ha⁻¹ significantly increased the nitrogen content in seed, straw, phosphorus content in straw, protein content in seed, nitrogen uptake in seed, straw, total and phosphorus uptake in straw. Application of 60 kg phosphorus ha⁻¹ significantly increased the phosphorus content in seed, phenol content, phosphorus uptake in seed and total.

Key words : Fenugreek, Vermicompost, Phosphorus, Nutrient content, Uptake, Quality

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