



Integrated nutrient management in groundnut (*Arachis hypogaea* L.)-maize (*Zea mays*) cropping system

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Abstract : A field experiment was conducted to assess the fertilizer requirement of groundnut (*Arachis hypogaea* L.) - maize (*Zea mays*) cropping system on *Vertisol* of western Maharashtra plain zone. Dry pod and haulm yield of the summer groundnut were increased significantly due to the integrated nutrient management treatments. Maximum and significantly higher dry pod (36.34 q ha⁻¹) and haulm (51.07 q ha⁻¹) yield were recorded due to the application of 75 % RDF + 25 % N through FYM + *Rhizobium* + PSB. Application of 75 % RDF + 25 % N through FYM + *Rhizobium* + PSB to preceded groundnut and 75 % RDF + 25 % N through FYM + *Azobacter* + PSB to succeeding maize recorded maximum maize seed yield (36.23 and 40.30 q ha⁻¹) and stover yield (50.99 and 54.96 q ha⁻¹), respectively. However, application of 75 % RDF + 25 % N through FYM + *Rhizobium* + PSB to preceded groundnut and 75 % RDF + 25% N through FYM + *Azobacter* + PSB to succeeding maize recorded maximum groundnut equivalent yield (51.70 and 51.55 q ha⁻¹), respectively.

Key Words : Groundnut-maize cropping system, Integrated nutrient management, Organic manure

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