



Studies on integrated nutrient management in mustard [*Brassica juncea* (L.) Czern & Cosson]

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Abstract : An experiment on integrated nutrient management in mustard [*Brassica juncea* (L.) Czern & Cosson] was conducted during Rabi season 2011-2012 at Students' Instructional Farm (SIF) of C.S. Azad University of Agriculture and Technology, Kanpur. Eight treatments replicated three were tested in Randomized Block Design. Result shows that significantly better growth attributes, yield attributes and grain yield (22.75 q/ha) were observed with combined application of RDF + vermicompost @ 5.0 t/ha over rest of the treatments. The minimum grain yield (19.15 q/ha) was received in treatment RDF (120:60:40:30 NPKS kg/ha). The application of RDF + vermicompost @ 5.0 t/ha also showed significantly higher gross income (Rs. 81575) and net profit (Rs. 35725) over rest of the treatments. While benefit : cost ratio was significantly higher (1.96) with the application of RDF (120:60:40: 30 NPKS kg/ha) over rest of the treatments except at par with RDF + vermicompost @ 2.0 t/ha. The minimum gross income (Rs. 69419/ha) was received in treatment RDF (120:60::40:30 NPKS kg/ha). While the minimum net income and B:C ratio was found in treatment RDF + FYM @ 6.0 t/ha.

Key Words : Integrated nutrient management, Mustard, Vermicompost, RDF, FYM

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