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Research Paper

ADVANCE RESEARCH JOURNAL OF
C R P
IMPROVEMENT
Volume 5 | Issue 2 | Dec., 2014 | 79-83
..... e ISSN-2231-640X

Effect of different sources of nutrients on growth, yield and quality of soybean varieties

DOI :
10.15740/HAS/ARJCI/5.2/79-83
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ABSTRACT : A field experiment was conducted at P.G. student research farm, Department of Agronomy, College of Agriculture, Vasantao Naik Marathwada Krishi Vidyapeeth, Parbhani (M.S.) India during *Kharif* season 2011 to study effect of different sources of nutrients on growth, yield and quality of soybean varieties. The results of the study revealed that growth, yield and quality of soybean differ significantly due to varied nutrient levels. Variety MAUS-71 recorded significantly higher plant height, followed by JS-335. Maximum number of branches, LAI, number of pods per plant, dry matter and number of nodules per plant was observed in variety JS-335 followed by MAUS-71 and the lowest was noticed in cultivar MAUS-158. Yield attributing characters *i.e.* number of pods plant⁻¹, 100 seed weight, seed yield, straw yield and harvest index were significantly higher in variety JS-335. Cultivar JS-335 created maximum protein yield as well as oil yield which was significantly superior over rest of the genotypes. The chemical source of nutrient @ RDF: 30:60:30 NPK kg ha⁻¹ gave the highest productivity as compared to other sources of nutrients used in the experiment. The soil fertility can be improved by application of farmyard manure @ 5 tonnes hectare⁻¹ in respect of available NPK and OC.

Key Words : Soybean varieties, Chemical fertilizers (30:60:30), FYM, Vermicompost

How to cite this paper : Gokhale, D.N., Kadam, S.R., Karanjikar, P.N. and Jami, Ziauddin (2014). Effect of different sources of nutrients on growth, yield and quality of soybean varieties. *Adv. Res. J. Crop Improv.*, **5** (2) : 79-83.

Paper History : Received : 26.05.2014; Revised : 08.10.2014; Accepted : 22.10.2014