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RESEARCH PAPER

Estimation of yield and nutrient uptake by onion under the influence of inorganic, organic and bio-fertilizers

ABHISHEK SINGH AND R.B. RAM

Department of Applied Plant Science (Horticulture), School of Bioscience and Biotechnology, Babasaheb Bhimrao, Ambedkar University (A Central University), Vidya Vihar, Raebareli Road, LUCKNOW (U.P) INDIA Email: abhishek 0875@gmail.com

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An investigation was carried out to assess the integrated use of inorganic, organic (FYM, pressmud, poultry manure and vermicompost) and bio-fertilizers (*Azotobacter*, *Azospirillum* and phosphate solubilizing bacteria) on yield, nutrient uptake byonion and nutrient pool of the soil during *Rabi* season of the year 2013-14. There was a significant effect of various treatment found on the yield, nutrient uptake and soil nutrient reserve. Maximum yield per hectare were found in 50 per cent recommended NPK + 50 per cent vermicompost while minimum yield was observed in control. Maximum uptake of nitrogen and potassium was obtained in treatment combination 50 per cent recommended NPK + 50 per cent pressmud. Among different treatment combination highest nitrogen and potassium reserve in soil was found in treatment combination 50 per cent recommended NPK + 50 per cent vermicompost while maximum value for organic carbon percentage was in sole vermicompost application.

Key words: FYM, Pressmud, Vermicompost, Poultry manure, Biofertilisers, Nutrient uptake

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