IJPS INTERNATIONAL JOURNAL OF PLANT SCIENCES
Volume 9 | Issue 2 | July, 2014 | 372-376
e ISSN-0976-593X | Visit us - www.researchjournal.co.in

RESEARCH ARTICLE

Effect of FYM, biofertilizers and zinc on yield and macro nutrients uptake of maize (*Zea mays* L.)

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SUMMARY

Maize (*Zea mays* L.)-wheat (*Triticum aestivum* L.) is a common cropping sequence in large part of India, including Rajasthan. However, productivity of this sequence under rainfed condition is quite low; an important constraint being the supply of mineral nutrients especially zinc. A majority of the farmers in Rajasthan do not apply zinc in this sequence, mainly because of their ignorance about its role as well as high cost. The cereal based cropping system and application of continuous profit motivated imbalanced nutrient application is the matter of great concern for sustainability. In spite of heavy inputs, the net result in such a system is the decline in crop yields because of limitation of one or more micronutrients. Use of chemical fertilizer or organic alone cannot achieve and sustain the desired levels of use of organic manure with chemical fertilizers very essential as this not only sustains higher levels of productivity but also improve soil health and enhance the nutrient use efficiency. Keeping the above facts under consideration, an experiment was carried out to study the response of continuous maize-wheat cropping and fertilizer application on crop yields and nutrient status of the soil.

Key Words : FYM, Biofertilizers, Zinc, Yield, Maize, Macro nutrients

How to cite this article : Solanki, R.L., Faujdar, R.S., Sharma, M. and Dangi, R.C. (2014). Effect of FYM, biofertilizers and zinc on yield and macro nutrients uptake of maize (*Zea mays* L.). *Internat. J. Plant Sci.*, **9** (2) : 372-376.

Article chronicle : Received : 23.12.2013; **Revised :** 15.05.2014; **Accepted :** 30.05.2014

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