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A Review on Precision Nutrient Management in Maize

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ABSTRACT

Maize is considered as a nutrient exhaustive crop, requiring high amounts of nutrients for its proper growth, production and yield. Proper nutrient management strategies can help in maintain the nutrient requirement of maize crop. The implementation of precision agriculture technologies like LCC, SPAD, and VRA can help in better prediction and application of nutrient sources to the maize crop. This article focuses on the various primary and micro nutrients required and different precision nutrient management strategies and tools that can be utilized to increase the nutrient use efficiency of maize crop.

Keywords: Maize, Nutrients, Nutrient Management, Precision Nutrient Management

Agriculture in India has come a long way in terms of technological and mechanical developments. The advancements in agriculture have been proving its essentiality and need for a sustainable agriculture in the future. Agriculture science has been adding much beneficial developments in all its factors. India witnessed a huge economical development and self sufficiency in food after the Green revolution in 1960's. The hunger of millions in the country got filled with the adoption of inorganic fertilizer application in crops. Regardless of the disadvantages of the revolution with soil health and environmental health, it has increased the farming capacity and economy as well. The advancements in controlling, managing and prediction of nutrient applications have been the most attractive part of agriculture. Nutrient management is the only voluntary option to catch up with the demand for food and sustainable production for the rapidly increasing population in the world. All plants need sufficient amount of nutrients for their proper growth and development. The nutrient requirement of plants consists of many primary, secondary and some essential nutrients. The nutrients provide plants a better growth and ultimately provide good production and yield. The sources of nutrient application are now been very clear to every individual farmer all where but not the consequences. The lack of awareness about these chemical sources in farmers is going to evolve as a challenge in the future of agriculture. Nutrient management strategies and nutrient management tools are the most needful things for managing and benefiting the environmental and soil health. Integrated nutrient management, precision nutrient management and site-specific nutrient management strategies have to be followed for maintain the

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