

Identification of Nutrient Deficiencies in Maize Based on Conventional Critical Nutrient Concentration (Cnc)

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ABSTRACT

A crop leaf nutrient survey was carried out in Karimnagar, Nizamabad and Warangal districts of Andhra Pradesh to identify the nutrient deficiencies if any in maize based on conventional Critical Nutrient Concentration (CNC). Index leaves (ear leaves opposite to cob at silking or tasseling stage) were collected at random from the 150 selected fields covering 50 locations in each district in 10 mandals covering 3-5 locations in each mandal for the analysis of nutrients. 15-20 index leaves at random were collected in each field and composite sample was prepared and analyzed for N, P, K, Zn, Cu, Fe and Mn following standard procedures. The deficient nutrients were identified (N, P, K, Zn, Cu, Fe and Mn) based on the Critical Nutrient Concentration (CNC). The extent of nutrient deficiencies were changed depending up on the critical level adopted.

Key words : Critical Nutrient Concentration (CNC), Index leaves and silking or tasseling stage