

Delineation of Nutrient Status in Maize Growing Soils of Chittoor District in Andhra Pradesh

R V Sagar Kumar Reddy, M V S Naidu, K Sreenivasulu Reddy and N Suneetha

Department of Soil Science and Agricultural Chemistry

S V Agricultural College, Tirupati, Andhra Pradesh - 517 502.

ABSTRACT

A survey was undertaken to delineate the nutrient status in maize growing soils in Chittoor district of Andhra Pradesh. The analysis of the soils revealed that the texture of the soils varied from sandy clay loam to clay, neutral to moderately alkaline in reaction, non-saline, low to medium in organic carbon, low to medium in available nitrogen and available P and high in available K. The available Ca and Mg were found to be sufficient in all the soils. However, 40, 63 and 76 per cent samples in Alfisols, Inceptisols and Vertisols, respectively were deficient in available S. Available Fe, Mn and Cu were found to be above their respective critical limits while 13.33 per cent soil samples in Inceptisols were deficient in Zn. Further, 23.3, 13.3 and 3.3 per cent of samples in Alfisols, Inceptisols and Vertisols, respectively were deficit in available boron.

Key words : Maize grown soils, Macronutrients, Micronutrients, Soil orders.