

Physico-chemical Properties and Major Nutrient Status in Some Soils of Krishna Eastern Delta, Andhra Pradesh

D Srinivas, P R K Prasad, G Subba Rao and T V Satyanarayana
Andhra Pradesh Water Management Project, Bapatla 522 101, A P, India

ABSTRACT

A reconnaissance survey was conducted to study the physico-chemical properties and available nutrient status of some of the soils of Krishna Eastern Delta, Andhra Pradesh. Soil samples were collected from representative areas in the delta and analyzed for soil reaction, electrical conductivity, organic carbon and major nutrients. The results revealed that texture of the soils varied from sandy loam to clay. Majority of the soils have neutral pH. About 53 per cent of soils have low organic carbon content while rest of them were medium status. The available nitrogen in the soils was low to medium while the phosphorus and potassium were medium to high. Significant positive correlations were found between organic carbon and available N, P and K. The saturation extract of the soil samples pertaining to Villages of Deendayalapuram, Akanuru, Soralgondi, Chintalamada, Utukuru, Chinaogirala, Chilakalapudi and Mangalapuram were found to be strongly saline and need proper reclamation measures for growing a good crop during monsoon.

Key words : Physico-chemical properties, Krishna eastern delta, Major nutrients.