Chemical Composition of Soils of Krishna delta Region in Andhra Pradesh

V Siva Jyothi, P Prasuna Rani, K V Ramana, P Ratna Prasad and M Sree Rekha
Department of Soil Science & Agricultrual Chemistry, Agricultural College, Bapatla 522 101

ABSTRACT

Horizon-wise soil samples from fourteen pedons representing Krishna delta region of Andhra Pradesh were analyzed for elemental composition. The study revealed that silica and sesquioxides were the dominant fractions contributing to more than 75 per cent followed by calcium and magnesium oxides. The coarse textured pedons registered higher SiO_2 / R_2O_3, SiO_2 / Al_2O_3 and SiO_2 / Fe_2O_3 ratios due to higher silica and lower sesquioxide content than fine textured soils.In much of the study area silica/ alumina and silica/iron oxide ratios increased with depth. The order of other elements was found to be Na>K>Mn>P_2O_5>CuO>ZnOin soils represented by majority of the pedons.

Key words: *Molar concentration, Molar ratios, P_2O_5, K_2O, Na_2O, CaO, MgO, ZnO and CuO*