

NUTRIENTS STATUS OF SUGARCANE-WHEAT GROWING SOILS OF DAURALA BLOCK OF MEERUT DISTRICT - UTTAR PRADESH

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Abstract The physico-chemical characteristics, available macro- and micronutrient status in the soil help in determining the soils potential to supply nutrients for crop growth. In order to provide a base line data and information the study was taken up under sugarcane - wheat cropping system of Daurala block Soil (district Meerut). The depth wise soils samples (0-15, 15-30 and 30-45 cm) in sugarcane - wheat cropping system at five different locations was analyzed for pH, EC, organic carbon, macro and micronutrients. The surface and sub surface soil were in neutral to alkaline and none of the soil was found to be saline category. The organic matter content declined with soil depth, varied from 0.12 to 1.06 % at surface and sub surface soil. The available N, P and K 141 to 223, 8.1 to 42.7 and 160 to 343 kg ha⁻¹ at surface and sub surface soil and declined with increasing soil depth. Among the different micronutrients with exception of zinc and Fe, the availability of Cu and Mn micronutrients were in sufficient range. The availability of these micronutrients declined with increase in soil depth.

Keywords: Available N, P, K, Micro nutrients, Soil fertility, Sugarcane

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