DTPA EXTRACTABLE MICRONUTRIENTS STATUS OF THE SOIL SERIES OF DISTRICT LAKKI AND THEIR RELATIONSHIP WITH SOIL PROPERTIES

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ABSTRACT

Twenty nine (29) different soil series/ associations/complexes of district Lakki were studied for DTPA extractable micronutrients distribution in 0-15 cm and 15-45 cm soil depths and their relationship with important soil physical and chemical properties. The study revealed that Cu, Zn, Fe and Mn ranged from 0.14 to 2.40, 0.23 to 4.15, 1.16 to 16.52 and 4.12 to 31.56 mg kg^{-1} in top soil, while they were in the range of 0.26 to 2.28, 0.33 to 4.90, 0.44 to 31.12 and 4.50 to 19.84 mg kg^{-1} in the sub-soil. Copper showed equal distribution in both the depths, while Zinc was less distributed in the surface soil than sub-surface soil. Manganese indicated a decrease in its content with depth. All these metals behaved either negatively or poor positively with pH of the soils. Correlation of Cu and Zn with Organic matter was positive, while with sand content of the soils they were negatively correlated. The relationships of clay and silt with Mn and Cu were positive.