IJPS INTERNATIONAL JOURNAL OF PLANT SCIENCES
Volume 9 | Issue 1 | January, 2014 | 277-282

RESEARCH ARTICLE

Available iron and copper status and their relationship with soil physico-chemical properties and its content in wheat crop of internal drainage dry zone of Rajasthan

■ R.C. SANWAL, M.L. REAGER AND L.R. BALAI

SUMMARY

Seventy surface soil and wheat plant samples were collected from seventy village of Sri Madhopur tehsil of Siker District (Rajasthan) India. The soils were analysed for textural, separates, physic-chemical properties and status of available iron and copper. Grain and straw of wheat plant were separately analysed for determination iron and copper content. The majority of soils were found sandy in nature and their textural classes are sandy, loamy sand and sandy loam. Soils of the study area were found slightly calcareous in nature. Soils of study area have low organic carbon and cation exchange capacity. On the basis of pH_2 and EC_2 values, these soils were found slightly alkaline in nature. Majority of soils under study were found deficient in iron and adequate available in copper. The availability of iron and copper in soil significantly influenced by soil properties like textural separate, organic carbon, $CaCO_3$, CEC and pH_2 soils.

Key Words : Available iron, Available copper status, Physico-chemical properties of soil, Wheat crop

How to cite this article : Sanwal, R.C., Reager, M.L. and Balai, L.R. (2014). Available iron and copper status and their relationship with soil physico-chemical properties and its content in wheat crop of internal drainage dry zone of Rajasthan. *Internat. J. Plant Sci.*, **9** (1): 277-282.

Article chronicle : Received : 21.11.2013; **Revised :** 15.12.2013; **Accepted :** 30.12.2013

MEMBERS OF THE RESEARCH FORUM

Author to be contacted :
R.C. SANWAL, Department of Soil Science and Agricultural Chemistry, College of Agriculture, S.K. Rajasthan Agricultural University, BIKANER (RAJASTHAN) INDIA
Email: drmadanagro@gmail.com

Address of the Co-authors:
M.L. REAGER, Krishi Vigyan Kendra (S.K.R.A.U.), BIKANER (RAJASTHAN) INDIA

L.R. BALAI, Krishi Vigyan Kendra (S.K.R.A.U.), FATEHPUR (RAJASTHAN) INDIA