

Research Article

DOI : 10.15740/HAS/AJSS/11.2/286-289

Study of soil-fodder-serum mineral interrelationship in saline tract area of Akola district of Maharashtra state

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Received : 09.08.2016; Revised : 20.10.2016; Accepted : 15.11.2016

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Summary

The present study was conducted in saline affected villages of Purna river valley of Akola district of Maharashtra to establish the soil, fodder and serum mineral interrelationship. Total 104 soils, 71 fodders and 360 serum samples of animals were collected and subjected for micro mineral estimation. The study revealed non-significant multiple correlation co-efficient between soil-fodder-animal for Cu, Fe and Mn, however, the direction between correlation found positive, indicating the direct association between soil-fodder and animal. The overall study concluded that the multiple correlation co-efficients between animal-soil-fodder for Zn found highly significant indicated positive association between animal-soil-fodder for Zn in saline tract area of Akola district. Present study concluded that low Zn content in soil reflected in fodder grown on this soils and animals maintained in saline tract area of Akola district.

Key words : Soil, Fodder, Serum, Correlation, Micro-mineral, Animal, Salinity

How to cite this article : Waghmare, S.P., Sarode, D.B. and Dakshinkar, N.R. (2016). Study of soil-fodder-serum mineral interrelationship in saline tract area of Akola district of Maharashtra state. *Asian J. Soil Sci.*, 11 (2) : 286-289 : DOI : 10.15740/HAS/AJSS/11.2/286-289.