

Research Article

Soil-site suitability for major crops in Renigunta mandal of Chittoor district in Andhra Pradesh

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Summary

A reconnaissance soil survey was undertaken in Renigunta mandal of Chittoor district, Andhra Pradesh to evaluate the suitability of soils for paddy, groundnut, redgram, sugarcane vegetables and mango. The soil belongs to Inceptisols, Entisols and Alfisols. More than 60 per cent base saturation, texture was finer and regular decrease in organic carbon with depth in Typic Haplustepts. Organic carbon, base saturation are major limitation in Typic Ustipsamments and Typic Ustifluvents. However, organic carbon and base saturation did not show limitation in Typic Haplustalfs. In general, texture, base saturation, pH and organic carbon are the major limitation for crop growth in all the soil. The limitation level of the land characteristics varied from crop to crop. The suitability classes can be improved if the corrective limitations (soil fertility characteristics) are altered through soil amelioration measures.

Key words : Soil-site suitability, Renigunta mandal, Groundnut, Paddy, Sugarcane, Vegetables, Mango

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