GEOINFORMATICS

An Emerging Approach for Sustainable Crop Production and Food Security

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CHAPTER 9

Geoinformatics-Based Monitoring of Nutrient Use Efficiency and Soil Health

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ABSTRACT

An improved crop research and advisory program includes soil survey. It is a detailed inventory of the area's soil resource and gives comprehensive information on soils. It provides the data required to plan land-use and soil-management initiatives. A database of soil characteristics is obtained using the soil survey report and field samples. The soil survey report is mainly based on a low-intensity survey, but it can be utilized for a variety of planning objectives. Soil analysis, creation of various vegetation indices, digital elevation model (DEM), land use land cover, and many other technologies

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