

GEOINFORMATICS

*An Emerging Approach for Sustainable Crop
Production and Food Security*

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Edited By:

Vishnu D. Rajput, PhD
Abhishek Singh, PhD
Tatiana M. Minkina, PhD
Anil Kumar Singh, PhD
Narendra Pratap Singh, PhD

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CHAPTER 9

Geoinformatics-Based Monitoring of Nutrient Use Efficiency and Soil Health

P. SMRITI RAO,¹ ASHISH DAVID,² RAGHUNANDAN KHATANA,³
AKSHITA BARTH WAL,³ ASHIMA THOMAS,³ TARENCE THOMAS,³
and CYRIL ASHISH THOMAS⁴

¹*Department of Agriculture, Integral University, Lucknow,
Uttar Pradesh, India*

²*Department of Soil and Water Conservation Engineering,
Sam Higginbottom University of Agricultural Technology and Sciences,
Prayagraj, Uttar Pradesh, India*

³*Department of Soil Science and Agricultural Chemistry,
Sam Higginbottom University of Agricultural Technology and Sciences,
Prayagraj, Uttar Pradesh, India*

⁴*School of Mechanical Engineering, Vellore Institute of Technology,
Vellore, Tamil Nadu, India*

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