

# Nanoprimer Approach to Sustainable Agriculture

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# Chapter 9

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### ABSTRACT

*A soil survey is a component of an improved agricultural research and advisory programme. It provides in-depth knowledge on soils and a full assessment of the region's soil resources. It offers the information needed to organize activities for managing soil and land use. With the help of the soil survey report and field samples, a database of soil characteristics is created. Although the soil survey report is mostly based on a low-intensity survey, it can be used to achieve a number of planning goals. Geographical information systems (GIS), Photogrammetry, remote sensing, global positioning systems (GPS), and other technologies are useful for analysing soil, creating various vegetation indices, creating digital elevation models, determining land use and land cover, and many other tasks. These computational models can then be used by land managers, soil scientists, researchers, and many other professionals to make well-informed suggestions.*

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