

APPLICATION OF DIGITAL MAPPING AND GIS IN SPICE CROPS

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Abstract

A GIS can use combinations of mapped variables to build and analyze new variables. GIS technology is a computer-based data collection, storage, and analysis tool that combine previously unrelated information into easily understood maps. But GIS is much more than maps. A GIS can perform complicated analytical functions and then present the results visually as maps, tables or graphs, allowing decision-makers to virtually see the issues before them and then select the best course of action. The main feature for the development in agricultural sector is the Traceability of Information of crop management Monitoring. The traceable information could be expressed with the help of GIS. The objective of this Review paper is to illustrate the use of geographic information (GI) coupled with geographic information system (GIS) in providing a new level of precision for better productivity of spices crops. Like prediction of Hot spot of Piper species diversity and richness in Western Ghats, Prediction of suitability of Ginger and Turmeric in India and authentication with Yearly area and production data.(30yrs.) Prediction of availability Garcinia(medicinal plant) in Himalayan Foothills based on the recorded data of Western Ghats and verification with survey. Plotting and analysing of the biochemical properties of black pepper's aromatic properties and drawing suitable conclusion with the help of ARC GIS and DIVA GIS soft ware. Almost All the works have been published in National and International journals like Current Science, Acta Horticulture and so many