Optimization of Crop Production using Python

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Abstract*: The paper critically reviews various methods exclusively used for c r o p planning and points out suggestions for improvement in techniques used for crop planning. Specifically, the study examines scope for optimization of crop plan, objectives and constraints, approaches, seasonality issues, sensitivity analysis and various computer software packages used in computing the optimum models. With such extensive coverage, it intends to help the end users to decide upon an appropriate/suitable method corresponding to their situation and scenarios to frame the best and most practical/realistic optimum crop model.Cropping systems with differential requirement and contribution in modifying the rhizosphere by different crops provide newer challenge as well as opportunity for management to achieve higher input productivity for water and nutrients. Although, more than 250 double cropping systems are adopted in the country, the major contribution to food basket remains with the few cereal based systems such as rice-wheat, rice-rice, rice-gram, rice-sorghum, maize-wheat, maize-gram, soybean-wheat and sugarcane-wheat due to their extent of cultivation*

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