Role of Decision Support System in Horticulture

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Introduction

Decision support systems is a PC based program that helps with the decision-making system. The program can be quantitative, subjective or mix of both. Rural creation and handling framework are complicated due to natural substance and actual cycles involved and requires incredible arrangement of information to be pick up for the nourishment. Get to the next level efficiency further develop choice quality and critical thinking is required. A decision support system (DSS) is a modernized program used to help decisions and strategies. Anything which gives judicious, quantifiable and logical information to assist clients with making informed choices. Decision support systems (DSS) are collaborative software-based systems planned to help users in decision-making by accessing large volume of information generated from several related information systems. Decision support systems is assists with creating interdisciplinary information, precise assortment and recording of farming information deprived of guidance for supporting their decision-production under various conditions. It doesn't give direct directions or orders to farmers as farmers are in the place of attractive ultimate conclusions.

Types of Decision Support System

These can be classified into five types:

- Communications driven DSS
- Data driven DSS
- Document driven DSS
- Knowledge driven DSS
- Model driven DSS.

Information Need for DSS

Agricultural Decision Support Systems (ADSS) can be characterized as a human-PC framework which uses information from different sources, targeting and giving farmers with a deprived of guidance for supporting their navigation in more favourable conditions.

Weather data such as temperature, relative humidity, biological data, pest population data, disease symptoms, biophysical data such as plant growth stages geophysical data like season, climate, soils *etc.*is required. Similarly, survey results, residual levels of pesticides, commodity prices and sensors that measure temperature, humidity, rainfall, leaf wetness, wind speed and direction *etc.* is also required. Hence, according to stages like Decision Support Systems are required to help them in making proof based and exact choices.

Component for Decision Making

1. Recognize the choice.
2. Collect revelant information.
3. Distinguish the other options.
4. Measure the proof.
5. Choose among alternatives.
6. Make a change.
7. Survey your choice and its consequences.

Crop Specific Web/Mobile Application

For higher efficiency in cultivating a data-based framework is the need of great importance. The end client or on the other hand farmer should get data at the perfect environment. Many exploration associations pursue exhaustive web stages that give admittance to all important data. ICAR-IIHR effectively scatters specialized information on the examination yields through print media, radio discussions, television programs furthermore, web-based entertainment contacting a number of cultivators and other partners. At IIHR, Bangalore a few portable and web applications are created on agricultural yields, natural products, vegetables and flower yields to spread the data. These applications go about as an amazing asset with broad potential in agribusiness and helping farmers. Arka Baagwani Portable Application: official application for moment data. The application is straightforward and easy to use with consistent up gradation ability and has choices of android and IOS portable tasks. At ICAR-IIHR Bengaluru a few web applications have been created on agricultural yields well defined for natural products, fruits: mango, papaya, pomegranate, guava, grapes and sapota and on vegetables crops: brinjal, onion, okra, French bean, watermelon and tomato.

Conclusion

A comprehensive knowledge of every one of the models, formats and reflections that the Decision Support Systems will give a superior understanding of how to approach opportunities, challenges and threats. In any case Decision Support Systems remains an instrument that can give to firms a manageable strong upper hand in numerous businesses system.