Technology measures for Crop Estimation Survey

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Why is in news? Shri Manoj Ahuja launches Innovative Mobile Application and Web Portal for General Crop Estimation Survey (GCES) to Revolutionize Farming Practices

In-line with the Prime Minister's vision towards maximizing digital technology for social benefit, the Department of Agriculture and Farmers Welfare (DA&FW) launched the mobile application and the web portal for GCES (General Crop Estimation Survey).

This revolutionary portal and mobile application have been designed to **transform agricultural practices** across the nation.

The accuracy of the data is a very important component for truthful and reliable outcome generation and the responsibility of ensuring accuracy of the data lies with the data providers as well.

It has been **developed by Department of Agriculture and Farmers' Welfare** for leveraging technology to enhance the reach, scope, and outcome of government actions in the course of development.

Key Challenges Addressed by GCES Web Portal and Mobile Application:

Delay in Reporting- Till date data collection, compilation and yield estimation is completely manual process which cause delay in reporting by states. In the new process, the field data will be collected using GPS enabled mobile application and will be stored in the server which ensures on time reporting of crop statistics.

Transparency- GPS enabled devices provide precise latitude and longitude coordinates for data collection points. This information ensures that data is linked to specific geographic locations, leaving no room for ambiguity or manipulation of data regarding where it was collected.

Key Features of the GCES Web Portal and Mobile Application:

Comprehensive Information- The portal and the app provide a comprehensive repository of yield estimation including village wise GCES plan and plot details where the crop cutting experiments are conducted, post harvesting crop weight and driage weight of the crop.

Geo-referencing- Geo-referencing is one of the key features of the mobile application, which enables the primary worker to draw the boundary of the experimental plot and upload photos of the plot as well as of the crops through it. This feature will ensure transparency and accuracy of the data as well.

Crop Estimation Surveys:

The objective is to obtain the estimates of average yield per hectare (productivity) and total production of principal crops, **both at District and State levels** by conducting crop cutting experiments.