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Technology Assessed and Transferred

- A new sampling methodology for estimation of cotton production using double sampling approach under stratified two stage sampling framework, which is efficient and very cost effective than the existing methodology in operation has been implemented in all the Cotton growing states of the country from 2015-2016 by Directorate of Economics and Statistics (DES), Ministry of Agriculture and Farmers Welfare, Govt. of India.
- A new sampling methodology for estimation of area and production of horticultural crops which is efficient, simple, less time consuming and cost effective is being validated in eight states of the country namely, Karnataka, Maharashtra, Tamil Nadu, Andhra Pradesh, Gujarat, Himachal Pradesh, Haryana and Madhya Pradesh under CHAMAN Project (2014-2017). After validation of the developed methodology, the developed methodology will be implemented in all the states of the country from 2017-2018 by Division of Horticulture, Department of Agriculture, Cooperation and Farmers Welfare (DAC&FW), Ministry of Agriculture and Farmers Welfare, Govt. of India.
- A suitable sampling methodology for estimation of quantitative harvest and post harvest losses of major crops/commodities in India developed during previous study was implemented for conducting a National level survey during 2012-2014 covering 120 selected districts of the country and reliable estimates of percentage loss for 45 crops/commodities at different stages/channels i.e. from production to consumption were obtained.
- A sampling methodology for estimating crop area, yield and production under mixed and continuous cropping developed under FAO project is being tested and validated in three different countries namely, Indonesia from Asian Region, Rwanda from African Region and Jamaica from Caribbean Region during December 2015-April 2016. The developed sampling methodology is likely to be adopted globally specially in developing countries in future by the Food and Agriculture Organization of United Nations.
- Method of sampling of imported fertilisers from ships and containers being followed as per the prescribed procedure in the Fertiliser Control Order (FCO), Govt. of India was studied and modified method of sampling was suggested so that the sampling is done with reliability and it is practically feasible also. The modified method of sampling of imported fertilisers from ships and containers is adopted and included in Fertiliser Control Order (FCO), Govt. of India published in 2015.
- An android based Mobile Assisted Personal Interviewing (MAPI) Software has been developed under the project "Pilot study for developing State level estimates of crop area and production on the basis of sample sizes recommended by Professor Vaidyanathan Committee report" for data collection using smart phones with android operation system. It has been deployed in the State of Uttar Pradesh for data collection work in the Rabi season 2015-2016.

- A data entry software has been developed under the project “Pilot study for developing State level estimates of crop area and production on the basis of sample sizes recommended by Professor Vaidyanathan Committee report” for digitization of the primary data collected. It has been deployed in the state headquarters of the four states being currently surveyed namely Assam, Uttar Pradesh, Odisha and Karnataka.
- KRISHI (<http://krishi.icar.gov.in/>) Knowledge based Resources Information Systems Hub for Innovations in agriculture portal has been launched as a centralized data repository system of ICAR consisting of Technology and Data.
- For easy accessibility and quick reference of factorial experiments with minimally changes run sequences by the experimenters, webFMC online software (<http://webfmc.iasri.res.in>) has been developed. This software provides freely available solution for the researchers and students working in this area. The software generates both symmetric and asymmetric factorial design with minimum number of level changes for any parametric combinations.
- A module for online generation of Balanced Latin square designs for all values of $3 < v < 21$ (except $v = 6, 10, 14, 18$) have been developed and made available at www.iasri.res.in/design/BILS_Design/Default.aspx.
- A module for on-line generation of Row Column Designs with equal replication of each treatments for Factorial Experiments in Two Rows for $2n$ ($n < 10$) for orthogonal estimation of main effects and two factor interactions has been developed and made available at http://www.iasri.res.in/design/Row_Column_design_OP_2_rows/Default.aspx.
- A web application has been developed to predict the donor splice sites in vertebrates (<http://cabgrid.res.in:8080/sspred/>)
- SBMDb: First whole genome putative microsatellite DNA marker database of sugar beet for bioenergy and industrial applications has been developed (<http://webapp.cabgrid.res.in/sbmdb>).
- BIS-Goat: Breed Identification Server for Goat with locus minimization has been developed (<http://nabg.iasri.res.in/bisgoat>)