

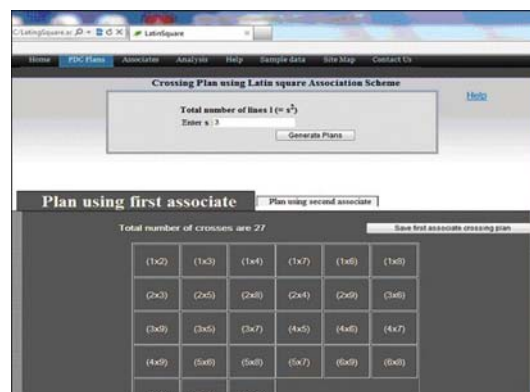
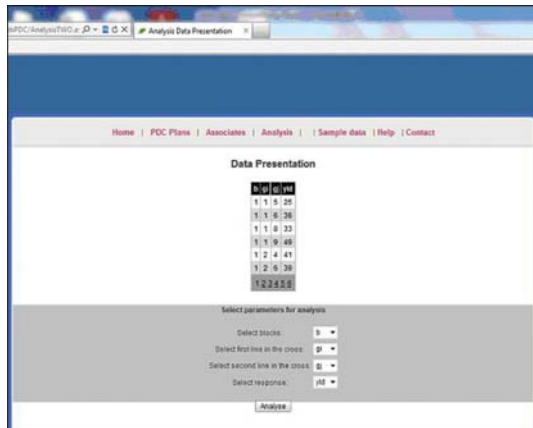
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## Technology Assessed and Transferred

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- A user friendly software **webPDC** has been developed for generation and analysis of partial diallel crosses (PDCs) obtained using association schemes of Partially Balanced Incomplete Block

(PBIB) designs. This software is useful for breeders to a considerable extent for generation and analysis of PDC plans. Web services for generation and analysis of PDCs are also provided that can be utilized by other applications.



- Software for aphid forecasting in Mustard crop has been developed in collaboration with DMR, Bharatpur IASRI and forewarnings are being issued to the farmers. This internet-based system is available at (<http://www.dmr.res.in/aphidforecast/index.php>). Forecast rapeseed-mustard aphid occurrence, has been implemented by embedding most effective earlier developed location-specific statistical models for aphid forecast. This web-based tool, developed for use by extension personnel, is useful to produce advisory for mustard growers to decide schedule of insecticide

application. The user has to input weather parameters by selecting location closest to their crop plantings area and system will provide a forecast of aphid incidence along with recommendations for insecticide application. The forecast regarding occurrence of aphid (*Lipaphis erysimi*) on oilseeds *Brassica* crops in season can be available to farmers with sufficient lag period for taking necessary action. This tool enables to avoid unwarranted sprays of insecticide to prevent avoidable expenditure of the farmers and also safeguard the environment from undue pesticide load.

