



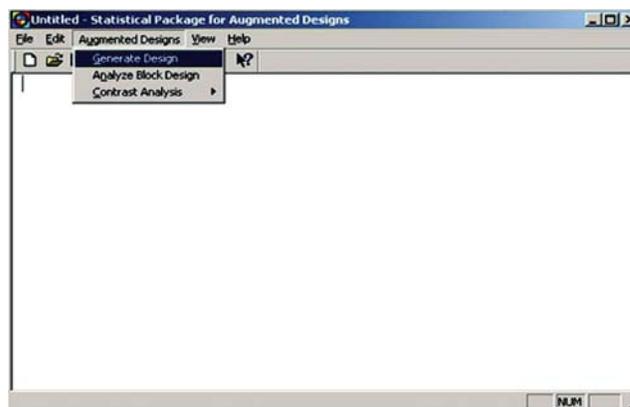
Technology Assessed and Transferred

Two software packages were finalized for commercial release. These packages were released by Prof. Mangala Rai, Secretary, DARE and Director General, ICAR on the Institute's Annual Day on July 02, 2005.

Statistical Package for Augmented Designs (SPAD)

SPAD is useful for designing agricultural experiments conducted for comparing existing practices/check varieties, called controls, with new practices/varieties/germplasm collections, called tests, where the experimental material for the tests is limited and it is not possible to replicate them in the design. The package generates a randomized layout of an augmented randomized complete block design and augmented complete block design with equal or unequal block sizes. The optimal replication number of the control treatments in every block is obtained by maximizing the efficiency per observation for making tests versus controls comparisons. User has a flexibility

to choose the replication number of the control(s) in each of the blocks. The package generates randomized layout of the design as per the procedure of Federer (1956), which is generally overlooked while conducting such experiments. The package also performs the



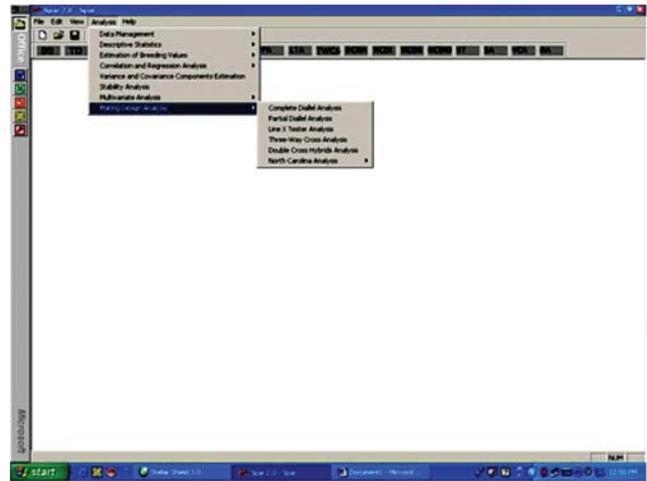
A window depicting different features of SPAD

analysis of data generated from augmented block designs (complete or incomplete). The treatment sum of squares is partitioned into different components of interest viz. (i) among test treatments, (ii) among control treatments and (iii) among test treatments and control treatments. Multiple comparison procedures for making all possible pairwise treatment comparisons can also be employed through this package. A null hypothesis on any other contrast of interest can also be tested.

Statistical Package for Agricultural Research (SPAR 2.0)

SPAR 2.0 is useful for the analysis of experimental research data in Plant Breeding and Genetics. The package consists of eight modules (i) Data Management, (ii) Descriptive Statistics, (iii) Estimation of Breeding Values, (iv) Correlation and Regression Analysis, (v) Variance and Covariance Components Estimation, (vi) Stability Analysis, (vii) Multivariate Analysis and (viii) Mating Design Analysis.

The cost of each of these packages is Rs. 1000+ Rs. 50 for postage for National Agricultural Research



A window depicting the different features of SPAR 2.0

System (NARS) and Rs. 2500 + Rs. 50 for postage for the organizations outside NARS. For each additional license, the organization from NARS has to pay Rs. 500 and the organization from outside the NARS has to pay Rs. 1000.