



Consultancy and Advisory Services

Advisory services for researchers in NARS and other organizations were pursued rigorously and various training programmes were conducted as consultancy (details given in Chapter 6).

FAO Consultancy

- Consultancy was provided to the Bangladesh Bureau of Statistics, Bangladesh in planning, organization of crop yield estimation survey.

Advisory Services Provided

- Ms. Sini Thomas, student, Division of Plant Physiology, IARI on the use of three factor ANOVA for comparing the effect of magnetopriming on growth and yield of chickpea under salinity.
- Dr. Swaran Lata, Associate Professor, Department of Crop Improvement, CSKHPKV, Palampur on estimating genotypic and phenotypic variance-covariance matrix, genotypic and phenotypic correlations, estimates of heritability and co-heritability and path analysis from the data on 13 characters generated from designed experiment on 40 cultivars conducted using an alpha design in 3 replications and 5 blocks of size 8 per replication.
- Sh. Kiran Kumar, M.Sc. student (Microbiology) on the use of dice coefficient for assessing the similarity among different soils based on the presence or absence of fatty acids.
- Sh. Manoj Kumar, Scientist, CIAE, Bhopal on the application of artificial neural networks for detecting

pattern in the mechanization status of soybean-wheat cropping pattern for different farm operation in Bhopal region.

- Ms. Meena Vidhani, Ph.D. student of Department of Physical Planning, School of Planning and Architecture, New Delhi to examine the prosperity of six newly developed towns (Kalyani, Bidhan Nagar, Mariamalai Nagar, Noida Gurgaon and Navi Mumbai) on the basis of seven factors affecting the performance of new towns.
- Dr. Charanjit Kaur, Professor, Division of Post-harvest Technology, IARI, New Delhi on the analysis of Box-Behnken design to study the effect of enzyme concentration, incubation temperature and extraction time for the enhanced juice yield and recovery of total anthocyanins from black carrot. Further, multi-response optimization technique was suggested to identify the optimum input combination for the maximum juice yield and total anthocyanine content.
- Dr. SV Singh, Principal Scientist and Head, Animal Health Division, Central Institute for Research on Goats, Makhdoom, UP, relating to planning and execution of sample survey to be conducted in a new project proposal.
- Sh. Rajeev Dhiman, Department of Crop Improvement, CSK Himachal Pradesh Krishi Vishwavidyalaya, Palampur on the analysis of data of an experiment conducted using an alpha design with 64 genotypes in 3 replications. Each replication having 8 blocks of size 8 each. The experiment was

conducted during 2010 and 2011. He was advised on performing analysis of variance, obtaining estimates of genotypic coefficient of variation, phenotypic coefficient of variation, environmental coefficient of variation, heritability and genetic advance for 11 parameters. He was also advised on SAS code for performing path analysis.

- Dr. Anchal Dass Atri, Scientist, Agronomy on the analysis for two years data on yield of experiment having 12 treatments under SRI method and two under conventional method of rice culture (12+2=14 treatments).
- Dr. Deependra Singh Yadav, Scientist, NRC Grapes on pair wise comparison of treatments after performing Analysis of Covariance.
- Sh. Yathish Kumar, Scientist Division of Genetics and Plant Breeding, DMR, New Delhi on the use of Jaccard's coefficient for clustering the genotypes based on marker data. Further, a program was written using SAS IML for calculating Polymorphism Information Content (PIC) for finding out the robustness of each of the marker.
- Sh. Ajit Sharma, Student, M.Sc. (Statistics), Deptt. of Basic Science, College of Forestry, Dr. YS Parmar University of Horticulture and Forestry, Naini- Solan (HP) for data analysis and suggested some nonlinear statistical growth models for Statistical investigation on prediction models with important fruit crops of Himachal Pradesh.

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