

Consultancy/Advisory Services Provided

A Senior Scientist, Division of Agronomy, Indian Agricultural Research Institute (IARI), New Delhi was advised on the analysis of experimental data conducted for standardization of nitrification inhibiting property of neem oil coated urea for kharif rice, 2005. In one experiment, 16 treatments tried were all possible combinations of 5 sources of nitrogen viz. prilled urea, 500 ppm oil coated urea, 1000 ppm oil coated urea, 2000 ppm oil coated urea, 5000 ppm oil coated urea and three doses, viz. 50, 100, 150 kg/ha and one absolute control. In another experiment, 16 treatments tried were all possible combinations of 5 sources of oil viz. FFA, pure oil, meliacins, saturated and unsaturated and three doses of oil viz. 500 ppm, 1000 ppm and 5000 ppm and one absolute control. The experiments were conducted using a randomized complete block design. The analysis was carried out using the concepts of contrast analysis.

A Ph.D. student of Molecular Biology and Biotechnology, IARI, New Delhi was advised on the

analysis of data pertaining to an experiment related to study of wheat transformation for tolerance to dehydration stress. 30 wheat genotypes were grown in the field in a randomized complete block design with 3 replications. Samples for each plot were taken and studied for callus formation in the laboratory. Samples from these 90 plots were also investigated in 2 regeneration media and the characters observed were G-spot, shoots per callus and number of shoots. The analysis was performed using PROC GLM of SAS.

Another Ph.D. student from Department of Plant Breeding and Genetics, Punjab Agricultural University, Ludhiana was advised on the analysis of data pertaining to 37 inbred lines (maize), all at advanced stage of development, selected for estimating the genetic diversity using molecular markers (SSR).

Professor, Department of Genetics and Plant Breeding, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi and Visiting Scientist at CIMMYT, Mexico was advised on (i) analysis of data

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pertaining to experiments conducted with resource conservation technology viz. zero tillage and conventional tillage in combination with different varieties of wheat to identify varieties that are good for zero tillage/conventional tillage and (ii) analysis of data pertaining to the experiment conducted for detecting the variation in 963 diverse lines of wheat for stay green trait. The experiment was conducted using randomized complete block design with three replications for three years. He was also advised on the analysis of data pertaining to an experiment on 100 diverse lines for stay green, canopy temperature difference and yield traits. The 100 lines comprised of 25 lines from each of the four groups, stay green, moderately stay green, moderately non-stay green and non-stay green. The experiment was conducted using a randomized complete block design with three replications for three years. There were three dates of sowing in each of the year.

Senior Scientist from Division of Agronomy, IARI, New Delhi was advised on the contrast analysis for comparison between durum, timely sown aestivum and

late sown aestivum cultivars of wheat for the characters grain yield, thousand grain weight, harvest index, water use efficiency, etc. The technique of combined analysis was suggested for the data on different parameters such as vine length, shoot weight of sweet potato having three sites with two seasons, four varieties and four replications. While analyzing the data, the sites were taken as random and seasons as fixed effects.

Provided consultancy services to one foreign M.Sc. student of IVRI and one Ph.D. student of NDRI. Helped them for their research work as well as analysis work.

Guidance and help were provided to the MCA student trainees of various Universities/colleges for their project work.

Consultancy services were provided to two collaborative studies namely; (i) Survey of agricultural accidents for the year 2004–05 in a large sample of villages selected on the basis of statistical consideration with AICRP on ESA (Ergonomics & Safety in Agriculture) and (ii) Assessment of post harvest losses of crops/commodities with AICRP on PHT.