

List of Approved On-going Research Projects

DEVELOPMENT AND ANALYSIS OF EXPERIMENTAL DESIGNS FOR AGRICULTURAL SYSTEM RESEARCH

1. Designs for single factor and multi-factor experiments and their applications in agricultural systems research. (ICAR National Professor Scheme)
VK Gupta
2. A statistical investigation on production, economic and energy potential of crop sequences in different agro-ecosystem.
Anil Kumar
3. Planning, designing and analysis of experiments planned ON STATION under the Project Directorate of Farming Systems Research.
Anil Kumar, Aloke Lahiri, OP Khanduri
4. Planning, designing and analysis of ON FARM research experiments planned under Project Directorate of Farming Systems Research.
NK Sharma, PK Batra, OP Khanduri
5. Planning, designing and analysis of data relating to experiments conducted under AICRP on long-term fertilizer experiments.
DK Sehgal, Krishan Lal, SMG Saran, Shashi Dahiya
6. Planning, designing and analysis of experiments relating to AICRP on STCR.
Aloke Lahiri, VK Gupta, A Subba Rao, Y Muralidharudu (IISS, Bhopal), Rajender Parsad, Abhishek Rathore (IISS, Bhopal).
7. Designs for mixture experiments in agriculture.
Krishan Lal, VK Gupta, PK Batra, Lalmohan Bhar
8. Agricultural field experiments information system.
PK Batra, OP Khanduri, DK Sehgal, Rajender Parsad, Sudeep
9. Experimental designs for agricultural research involving sequences of treatments. (Lal Bahadur Shastri Young Scientist Award Project).
Cini Varghese, Seema Jaggi
10. Generalized row-column designs for agriculture.
Cini Varghese, Seema Jaggi

FORECASTING AND REMOTE SENSING TECHNIQUES AND STATISTICAL APPLICATIONS OF GIS IN AGRICULTURAL SYSTEMS

11. Neural network based forecast modeling in crops.
Amrender Kumar, Ramasubramanian V, Ranjana Agrawal
12. Stochastic process modeling and forecasting through discrete nonlinear time series approach.
Himadri Ghosh, Prajneshu

13. Use of discriminant function and principal component techniques for weather based crop yield forecast.
Chandrabas, Ranjana Agrawal, SS Walia
14. Weather based models for forecasting potato yield in UP.
SC Mehta, Satya Pal, Vinod Kumar, (Krishi Bhawan Lucknow)
15. Development of Forecasting module for podfly, *Melanagromyza obtusa* Malloch in late pigeonpea.
SK Singh (IIPR, Kanpur), Ranjana Agrawal, Amrender Kumar
16. A study on editing and imputation using neural networks.
Ramasubramanian V, Ranjana Agrawal, SB Lal

DEVELOPMENT OF TECHNIQUES FOR PLANNING AND EXECUTION OF SURVEYS AND ANALYSIS OF DATA INCLUDING ECONOMIC PROBLEMS OF CURRENT INTEREST

17. Developing remote sensing based methodology for collecting agricultural statistics in North-East hilly region.
Prachi Misra Sahoo, Anil Rai, Tauqueer Ahmad, Samir Farooqi
18. Study on status and projection estimates of agricultural implements and machinery.
KK Tyagi, Jagbir Singh, KK Kher, VK Jain, Surendra Singh (CIAE, Bhopal)
19. Evaluation of rationalization of minor irrigation statistics scheme (Ministry of Water Resources, Govt. of India).
VK Bhatia, UC Sud, DC Mathur, Hukum Chandra, SB Lal
20. Small area estimation for zero inflated data.
Hukum Chandra, HVL Bathla, UC Sud
21. Sampling methodology for estimation of meat production in Meghalaya (Department of Animal Husbandry, Dairying & Fisheries, Ministry of Agriculture, Govt. of India).
Hukum Chandra, UC Sud, AK Gupta and DC Mathur
22. Impact of micronutrients on crop productivity and returns.
SP Bhardwaj, Rajendra Kumar, Ashok Kumar, Anil Kumar
23. Estimation of extent of farming practices, resources and activities with energy use.
Jagbir Singh, KK Tyagi, KK Kher, AK Gupta, VK Jain
24. Risk assessment and insurance products for agriculture (NAIP Component-I: Consortium Partner)
NCAP, New Delhi: PK Joshi, BC Barah
IASRI, New Delhi: Anil Rai, PK Malhotra, KK Chaturvedi, Ramasubramanian V
25. An econometric analysis of groundwater markets in Indo-Gangetic Plains of India.
DR Singh, AK Vasisht, Prawin Arya, Ashok Kumar, Mahender Singh
26. Visioning, Policy Analysis and Gender (V-PAGe) Sub-Prog. III: Policy analysis & market intelligence (NAIP Component-I: Consortium Partner).
VK Bhatia, AK Vasisht, DR Singh, Ashok Kumar, SP Bhardwaj, Prawin Arya, Sushila Kaul, Pratap Singh (NCAP, New Delhi), NP Singh (IARI, New Delhi), Anil Rai, KK Chaturvedi
27. Visioning Policy Analysis and Gender (V-PAGe) Sub-Prog. II: Technology forecasting (NAIP Component-I: Consortium Partner).
VK Bhatia, Ranjana Agrawal, Ramasubramanian V, Amrender Kumar, Satya Pal, Anil Rai, KK Chaturvedi, Girish Kumar Jha (IARI, New Delhi)
28. An econometric study of women empowerment through dairying in selected districts of Haryana.
Sushila Kaul, SP Bhardwaj, Sanjeev Panwar

29. Econometric study of long-run effect of public investment in irrigation on food grains productivity.
Ashok Kumar, SP Bhardwaj

MODELING AND SIMULATION TECHNIQUES IN BIOLOGICAL SYSTEMS

30. A statistical study of rainfall distribution and rainfall insurance.
Asha Saksena, Prajneshu, Himadri Ghosh
31. Computational analysis of SNPs at functional elements of rice genome.
AR Rao, Anu Sharma, SB Lal, Trilochan Mohapatra (NRCPB, New Delhi)
32. Empirical investigations on estimation of genetic correlation.
SD Wahi, AR Rao
33. Whole Genome Association analysis in common complex diseases: An Indian initiative (DBT Fuded)
 BK Thelma (UDSC, New Delhi), Ramesh C. Juyal (NII, New Delhi), Sanjay Jain (DU, Delhi),
AR Rao (IASRI, New Delhi), Ashok Kumar (AIIMS, New Delhi), Ajit Sood (DMC, Ludhiana)
34. Bioprospecting of genes and allele frequency for abiotic stress tolerance (NAIP Component-IV: Consortium Partner)
NRCPB, New Delhi: T Mohapatra
IASRI, New Delhi: AR Rao, SB Lal, Sudeep

DEVELOPMENT OF INFORMATICS IN AGRICULTURAL RESEARCH

35. Web solutions for partially balanced incomplete block designs.
Anu Sharma, Cini Varghese, Seema Jaggi
36. Statistical Package for Animal Breeding 2.1 (SPAB 2.1).
IC Sethi, SD Wah
37. Knowledge data warehouse for agricultural research.
Anil Rai, PK Malhotra, Seema Jaggi, KK Chaturvedi, Prachi Misra Sahoo, Mohd. Samir Farooqi
38. Strengthening, refining and implementation of expert system on wheat crop management.
SN Islam, HO Agarwal, Mohd. Samir Farooqi, KK Chaturvedi, HS Sikarwar
39. Decision support system for manpower planning – PERMISnet.
Alka Arora, Balbir Singh, Samir Farooqi, Shashi Dahiya, Anil Rai
40. Intranet solutions for PG School, IARI.
Sudeep, Hari Om Agarwal, Pal Singh
41. Machine learning approach for data mining.
Anshu Bharadwaj, Shashi Dahiya, Rajni Jain (NCAP, New Delhi).
42. An eLearning solutions for agricultural education using MOODLE.
Shashi Dahiya, Anshu Bharadwaj, KK Chaturvedi, Seema Jaggi, Cini Varghese
43. Project information and management system of ICAR (PIMS-ICAR).
RC Goyal, PK Malhotra, VH Gupta, Sudeep, Alka Arora, Pal Singh
44. National information system on agricultural education network in India (NISAGENET-III).
RC Goyal, VH Gupta
45. Software for survey data analysis.
SB Lal, Anu Sharma, VK Mahajan, Hukum Chandra, Anil Rai

46. Development of expert system on seed spices.
SN Islam, Hari Om Agarwal (IASRI, New Delhi), RK Kakani, Krishna Kant, OP Aishwat, MA Khan, GK Tripathi (NRC on Seed Spices, Tabiji, Ajmer)
47. Development of web enabled statistical package for agricultural research (SPAR 3.0).
Sangeeta Ahuja
48. Development of gender information system for agriculture.
HK Dash, M Srinath and Sabita Mishra (NRCWA, Bhubneshwar),
SB Lal, Anu Sharma, Anil Rai (IASRI, New Delhi)
49. Expert system for maize crop (Collaboration with Directorate of Maize research).
Hari Om Agarwal, Sudeep, Harnam Singh Sikarwar
50. Strengthening Statistical Computing for NARS (NAIP Component-I: Consortium Leader with 08 other Consortium Partners).
VK Bhatia (Consortium Leader), Rajender Parsad (Consortium PI), PK Malhotra, VK Gupta, VK Mahajan, Seema Jaggi, Samir Farooqui, Ramasubramanian V, LM Bhar, AK Paul, N Shivaramne