

### List of Approved On-going Research Projects

#### Remote Sensing and Geographic Information System

1. Developing remote sensing based methodology for collecting agricultural statistics in North-East hilly region.

**Prachi Misra Sahoo**, Anil Rai , HVL Bathla, Tauqueer Ahmad, Samir Farooqi

#### Assessment and Evaluation Studies

2. Impact assessment of fisheries research in India.

**GP Reddy** (NAARM, Hyderabad), AK Vasisht, DR Singh

3. Study on status and projection estimates of agricultural implements and machinery

**KKTyagi**, Jagbir Singh, KK Kher, VK Jain, Surendra Singh (CIAE, Bhopal)

#### Production and Area Estimation

4. Study to investigate the causes of variation between official and trade estimates of cotton production.

**Tauqueer Ahmad**, HVL Bathla, Anil Rai, Prachi Misra Sahoo, AK Gupta, VK Jain, DV Mhadgut (CIRCOT, Mumbai)

5. Pilot study to develop sampling methodology for estimation of production of mushroom.

**AK Gupta**, UC Sud, DC Mathur

6. Pilot study on small area crop estimation approach for crop yield estimates at the gram panchayat level.

**UC Sud**, HVL Bathla, RS Khatri, VK Mahajan, DC Mathur, Hukum Chand

7. Small area estimation for zero inflated data

**Hukum Chandra**, HVL Bathla, UC Sud

#### Cropping Systems Research

8. Planning, designing and analysis of experiments planned ON STATION under the Project Directorate of Cropping Systems Research.

**Anil Kumar**, Alope Lahiri, OP Khanduri

9. Planning, designing and analysis of ON FARM research experiments planned under Project Directorate of Cropping Systems Research.

**NK Sharma**, PK Batra, OP Khanduri

10. 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

11. A statistical investigation on production, economic and energy potential of crop sequences in different agro-ecosystems.

**Anil Kumar**

12. Planning, designing and analysis of experiments relating to AICRP on STCR.

**Alope Lahiri**, VK Gupta, A Subha Rao, Y Muralidharudu (IISS, Bhopal), Rajender Parsad, Abhishek Rathore (IISS, Bhopal) VK Sharma (upto 31-01-2008).

13. Long term manurial and fertilizer experiment on potato based cropping systems.

**CPRI Campus, Modipuram:** NC Upadhyay, OP Singh, AK Shukla, MA Khan, BP Singh, DB Singh, V Sunaina, Kamlesh Malik, Nalini Rajan Kumar, Dinesh Kumar

**From CPRI, Shimla:** MC Sood, PM Govindakrishnan, KP Chandran

**From PDCSR, Modipuram:** SS Paul

**From IASRI, New Delhi:** Rajender Parsad

14. Impact of micronutrients on crop productivity and returns.

**SP Bhardwaj**, Rajendra Kumar, Ashok Kumar, Anil Kumar

### Information System for Agricultural and Animal Experiments

15. Agricultural field experiments information system.  
**PK Batra**, OP Khanduri, DK Sehgal, Rajender Parsad, Sudeep Marwah

### Experimental Design for Agricultural, Animal, Agroforestry and Fisheries Research

16. Designs for mixture experiments in agriculture.  
**Krishan Lal**, VK Gupta, PK Batra, Lalmohan Bhar
17. Estimation of extent of farming practices, resources and activities with energy use.  
**Jagbir Singh**, KK Tyagi, KK Kher, AK Gupta, VK Jain
18. Web solutions for partially balanced incomplete block designs.  
**Anu Sharma**, Cini Varghese, Seema Jaggi
19. Experimental designs for agricultural research involving sequences of treatments. (Lal Bahadur Shastri Young Scientist Award Project)  
**Cini Varghese**, Seema Jaggi

### Studies on Gene Action, Estimation of Genetic Parameters and Genetic Merit, Genetic Progress and Other Related Statistical Methods

20. Effect of selection and incomplete model specifications on heritability estimates.  
**VK Bhatia**, SD Wahi, AK Paul, AR Rao
21. A statistical study of rainfall distribution and rainfall insurance.  
**Asha Saksana**, Prajneshu, Himandri Ghosh
22. Computational analysis of SNPs at functional elements of rice areas.  
**AR Rao**, Anu Sharma, SB Lal, Trilochan Mohapatra (NRCPB, New Delhi)
23. Empirical investigations on estimation of genetic correlation.  
**SD Wahi**, AR Rao

24. Whole Genome Association (WGA) analysis in common complex diseases: An Indian initiative (DBT Funded)

BK Thelma (UDSC, New Delhi), Ramesh C. Juyal (NII, New Delhi), Sanjay Jain (DU), **AR Rao**, Ashok Kumar (AIIMS, New Delhi), Ajit Sood (DMC, Ludhiana)

25. Risk Assessment and Insurance Products for Agriculture (NAIP).

**NCAP, New Delhi**: PK Joshi, BC Barah  
**IASRI, New Delhi**: Anil Rai, PK Malhotra  
KK Chaturvedi, Ramasubramanian V

### Forecasting Techniques in Agricultural System

26. Crop forecasting using state space models.  
**Ramasubramanian V**, Chandrahas
27. Neural network based forecast modeling in crops.  
**Amrender Kumar**, Ramasubramanian V, Ranjana Agrawal
28. Stochastic process modeling and forecasting through discrete nonlinear time series approach.  
**Himadri Ghosh**, Prajneshu
29. Use of discriminant function and principal component techniques for weather based crop yield forecast.  
**Chandrahas**, Ranjana Agrawal, SS Walia
30. Weather based models for forecasting potato yield in UP.  
**SC Mehta**, Satya Pal, Vinod Kumar, Krishi Bhawan Lucknow
31. Development of Forecasting module for podfly, *Melanagromyza obtusa* Malloch in late pigeonpea.  
SK Singh (IIPR, Kanpur), Ranjana Agrawal Amrender Kumar

### Study of Technological Change, Risk and Uncertainty in Agriculture

32. A study on editing and imputation using Neural Networks.  
**Ramasubramanian V**, Ranjana Agrawal, SB Lal

33. An econometric analysis of groundwater markets in Indo-Gangetic Plains of India.  
**DR Singh**, A K Vasisht, Prawin Arya , Ashok Kumar, Mahender Singh
34. Visioning, policy analysis and gender (V-PAGE) (Sub-Prog. III): Policy analysis & market intelligence (NAIP Project).  
**VK Bhatia**, AK Vasisht, DR Singh, Ashok Kumar, SP Bhardwaj, Prawin Arya , Sushila Kaul, Pratap Singh (NCAP, New Delhi), NP Singh (IASRI, New Delhi), Anil Rai, KK Chaturvedi
35. Visioning Policy Analysis and Gender (V-PAGE) Sub-Prog. II: Technology forecasting.  
**VK Bhatia**, Ranjana Agrawal, Ramasubramanian V, Amrender Kumar, Satya Pal, Anil Rai, KK Chaturvedi, Girish Kumar Jha (IASRI, New Delhi)
36. An econometric study of women empowerment through dairying in selected districts of Haryana.  
**Sushila Kaul**, SP Bhardwaj, Sanjeev Panwar
- Development of Databases and Information System for National Agricultural Research System**
37. Statistical Package for Animal Breeding 2.1 (SPAB 2.1).  
**IC Sethi**, SD Wah
38. Knowledge data warehouse for agricultural research  
**Anil Rai**, PK Malhotra, Seema Jaggi, KK Chaturvedi, Prachi Mishra Sahoo, Mohd. Samir Farooqi
39. Strengthening, refining and implementation of expert system on wheat crop management.  
**SN Islam**, HO Agarwal, Mohd. Samir Farooqi, KK Chaturvedi, HS Sikarwar
40. Decision support system for manpower planning – PERMISnet.  
**Alka Arora**, Balbir Singh, Samir Farooqi, Shashi Dahiya, Anil Rai
41. National Information System on Agricultural Education Network in India (NISAGENET 2).  
**RC Goyal**, PK Malhotra, Ashok Kumar , VH Gupta, KK Chaturvedi , Mohd. Samir Farooqi, Sudeep Marwah
42. Internet solutions for PG School, IARI.  
**Sudeep Marwaha**, Hari Om Agarwal, Pal Singh
43. Machine learning approach for data mining  
**Anshu Bharadwaj**, Shashi Dahiya, Rajni Jain (NCAP, New Delhi).
44. An eLearning solutions for agricultural education.  
**Shashi Dahiya**, Anshu Bharadwaj, KK Chaturvedi, Seema Jaggi, Cini Varghese
45. Project Information & Management System of ICAR (PIMS-ICAR)  
**RC Goyal**, PK Malhotra, VH Gupta, Sudeep Marwaha, Alka Arora, Pal Singh
46. National Information System on Agricultural Education Network in India (NISAGENET).  
**RC Goyal, VH Gupta**
47. Software for Survey Data Analysis.  
**SB Lal**, Anu Sharma, VK Mahajan, Hukum Chandra, Anil Rai
48. Development of Expert System on Seed Spices.  
**SN Islam**, Hari Om Agarwal: NRC on Seed Spices, Tabiji, Ajmer RK Kakani, Krishna Kant, OP Aishwat, MA Khan and GK
49. Development of Web Enabled Statistical Package for Agricultural Research (SPAR 3.0).  
**Sangeeta Ahuja**
50. Development of gender information system for agriculture.  
**H.K. Dash** (NRCWA), S.B. Lal (IASRI)

**IASRI**  
**GOLDEN**  
**JUBILEE**  
**1959-2009**



