

List of Publications

Research Papers

1. Ahmad, T and Kathuria, OP (2010). [Estimation of crop yield at block level.](#) *Adv. Appl. Res.*, **2(2)**, 164-172.
2. Ahmad, T, Rai, A and Singh, R (2010). [Statistical evaluation of development of village's potential for agro forestry using GIS.](#) *Adv. Appl. Res.*, **2(2)**, 157-163.
3. Alam, W and Chaturvedi, A (2010). [Discriminating among overlapping parametric models and estimating survivorship function of insects mortality.](#) *Int. J. Comp. Sci. Math.*, **2(1)**, 1-10.
4. Bhardwaj, SP (2010). [Impact of global meltdown on agriculture – An exploratory study.](#) *Ind. J. Agric. Eco.*, **65(3)**, 497-507.
5. Chandra, Hukum (2010). [Small area estimation with binary variables.](#) *J. Ind. Soc. Agril. Statist.*, **64(3)**, 367-374.
6. Gandhi, RS, Kumar, Amit, Singh, Avtar and Paul, AK (2009). [Genetic analysis of stayability in dairy cattle: A review.](#) *Ind. J. Dairy Sci.*, **62**, 79-89.
7. Gangopadhyay, KK, Mahajan, RK, Parsad, Rajender, Kumar, Gunjeet, Meena, BL, Kar, Ranjan, Gambhir, Rajeev, Mishra, SK (2010). [Relative efficiency of experimental designs in evaluation of plant genetic resources.](#) *Ind. J. Plant Gene. Reso.*, **23(2)**, 164-167.
8. Ghosh, H, Paul, RK, and Prajneshu (2010). [GARCH and EGARCH non-linear time-series models for volatile data: An application.](#) *J. Statist. Appl.*, **5**, 177-193.
9. Gupta, VK, Singh, Poonam, Kole, Basudev and Parsad, Rajender (2009). [Construction of optimal mixed-level supersaturated designs.](#) *J. Ind. Soc. Agril. Statist.*, **63(3)**, 311-319.
10. Gupta, VK, Singh, Poonam, Kole, Basudev and Parsad, Rajender (2010). [Addition of runs to a two level supersaturated design.](#) *J. Statist. Plann. Inf.*, **140(9)**, 2531-2535.
11. Gupta, VK, Singh, Poonam, Kole, Basudev and Parsad, Rajender (2010). [Construction of efficient balanced and nearly balanced two-level supersaturated designs.](#) *J. Statist. Appl.*, **5(2)**, 179-194.
12. Gupta, VK, Singh, Poonam, Kole, Basudev and Parsad, Rajender (2010). [Computer aided construction of efficient multi-level supersaturated designs.](#) *J. Statist. Theo. Prac.*, **4(2)**, 221-231.

13. Iquebal, MA, Ghosh, H and Prajneshu (2010). **Application of genetic algorithm for fitting selfexciting threshold autoregressive non-linear time-series model.** *J. Ind. Soc. Agril. Statist.*, **64(3)**, 391-398.
14. Jaggi, Seema, Sarika and Sharma, VK (2010). **Response surface analysis incorporating neighbour effects from adjacent units.** *Ind. J. Agril. Sci.*, **80(8)**, 719-723.
15. Jaggi, Seema, Gill, AS, Varghese, Cini, Sharma, VK and Singh, NP (2011). **Statistical evaluation of fodder trees under an agroforestry system.** *The Ind. Forester*, **137(1)**, 113-120.
16. Jaggi, Seema, Varghese, Cini, Varghese, Eldho and Sharma, VK (2010). **Generalized incomplete trojantype designs.** *Statist. Probab. Lett.*, **80**, 706-710.
17. Kaul, Sushila and Ram, Ghasi (2009). **Impact of global warming on production of Jowar in India.** *Agril. Situation Ind.*, **66(5)**, 253-256.
18. Kole, Basudev, Gangwani, Jyoti, Gupta, VK and Parsad, Rajender (2010). **Two-level supersaturated designs: A review.** *J. Statist. Theo. Prac.*, **4(4)**, 589-608.
19. Kumar, Jitendra, Nisar, Keyath, Shakil, N.A., Walia, Suresh and Parsad, Rajender (2010). **Controlled release formulations of metribuzin: Release kinetics in water and soil.** *J. Env. Sci. Health, Part B: Pesticides, Food Contaminants, and Agricultural Wastes*, **45(4)**, 330-335.
20. Kundu, MG and Paul, AK (2010). **Phenotypic and genetic variability of estimated growth curve parameters in pigs.** *J. Ind. Soc. Agril. Statist.*, **64(3)**, 349-358.
21. Madke, PK, Lathwal, SS, Singh, Yajuvendra, Kumar, Anil and Kaushik, Vinay (2010). **Study of behavioural and physiological changes of crossbred cows under different shelter management practices.** *Ind. J. Anim. Sci.*, **80(8)**, 771-774.
22. Mandal, BN, Parsad, Rajender and Gupta, VK (2010). **Linear integer programming approach to construct distance balanced sampling plans.** *J. Ind. Soc. Agril. Statist.*, **64(2)**, 303-312.
23. Mandal, BN, Gupta, VK and Parsad, Rajender (2010). **Inclusion probability inversely proportional to size sampling.** *J. Statist. Appl.*, **5(1)**, 15-26.
24. Mandal, BN, Gupta, VK and Parsad, Rajender (2011). **Construction of polygonal designs using linear integer programming.** *Comm. Statist.-Theory Methods*, **40**, 1787-1794.
25. Mathur, DC and Sethi, SC (2010). **Estimation of productivity of coconut crop for different holding categories at blocks / districts level in Kerala state.** *Hry. Eco. J.*, **27(1-2)**, 101-102.

26. Meher, PK, Rao, AR, Wahi, SD and Jaggi, N (2010). [Detection of multivariate outliers in breeding data](#). *Intt. J. Statist Sys.*, **5(4)**, 527-535.
27. Parsad, Rajender, Rathore, Abhishek and Gupta, VK (2009). [Computer aided construction of efficient designs for making treatment-treatment and treatment-control comparisons](#). *Amer. J. Math. Manag. Sci.*, **29(1&2)**, 201-228. (Special Issue in memory of special volume on Bechhofer-Gupta-Sobel).
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29. Paul, RK, Ghosh, H and Prajneshu (2010). [Wavelet frequency domain approach for statistical modelling of Indian monsoon rainfall time-series data](#). *J. Statist. Theo. Prac.*, **4**, 813-825.
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31. Salvati, N, Chandra, Hukum, Giovanna, R and Chambers, R (2010). [Small area estimation using a nonparametric model based direct estimator](#). *Comput. Statist. Data Anal.*, **54(9)**, 2159-2171.
32. Sarkar, Ananta, Parsad, Rajender, Gupta, VK, Chatterjee, Kashinath and Rathore, Abhishek (2010). [Efficient row-column designs for microarray experiments](#). *J. Ind. Soc. Agril. Statist.*, **64(1)**, 89-117.
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34. Sethi, SC, Pandey, PS and Mathur, DC (2009-2010). [Productivity analysis of rice in India](#). *Hry. Eco. J.*, **27(1-2)**, 149-151.
35. Sharma, VK, Gharde, Yogita and Varghese, Cini (2010). [Minimal strongly balanced changeover designs with first residuals](#). *African J. Math. Comp. Sci. Res.*, **3(9)**, 195-198.
36. Sharma, VK, Varghese, Cini and Jaggi, Seema (2010). [Tetrahedral and cubical association schemes with related PBIB\(3\) designs](#). *Model Assist. Statist. Appl.*, **5(2)**, 93-99.
37. Shukla, Rajesh, Rai, Anil and Monga, Nitasha (2010). [India protection index: An objective measurement of the economic and social well-being of the Indian population](#). *J. Appl. Eco. Res.*, **4(3)**, 339–367.
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39. Singh, DR and Kaviarasan, K (2010). **Growth and instability analysis of flower production in Tamil Nadu.** *Agril. Situation Ind.*, **66(12)**, 709-713.
40. Singh, S, Singh, S, Singh, OP, Adlakha, SK, Sikarwar, H and Ahmad, T (2008). **Reclamation and management of alkali soils – A decision support system.** *J. Soil Water Conser.*, **7(1)**, 25-32.
41. Singh, Surendra, Vasisht, AK, Paul, AK, Sharma, SC and Bhar, LM (2010). **The effect of farms on growth pattern of crossbred cattle.** *Ind. J. Anim. Sci.*, **80(4)**, 373-375.
42. Srinath, K, Nair, RV, Unnithan, GR, Gopal, N. Bathla, HVL and Ahmad, T (2008). **Post harvest losses in marine fisheries.** *Fish. Technol.*, **45(1)**, 109-112.
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45. Tyagi, KK, Singh, Jagbir, Kher, KK, Jain, VK and Singh, Surendra (2010). **Status and projection estimates of agricultural implements and machinery.** *Ind. Agril. Engg. Today*, **34(4)**, 5-14.
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48. Yadav, DK, Singh, G, Jain, A, Paul, AK and Singh, S (2010). **A comparison of non-linear models for describing growth in Muzaffarnagar lambs under field conditions.** *Ind. J. Anim. Sci.*, **80(6)**, 581-583.

Popular Articles

सांख्यिकी-विमर्श 2010-11, अंक-6 में प्रकाशित लेख

- कृष्ण कान्त त्यागी, अशोक कुमार एवं विजय बिन्दल । **संस्थान के कीर्तिस्तम्भ : प्रोपफ़ेसर मनीन्द्र नाथ दास**, 1-2
- विजय कुमार भाटिया । **कृषि अनुसंधान सांख्यिकीविदों के राष्ट्रीय सम्मेलन – एक अवलोकन**, 18-20
- कृष्ण कान्त त्यागी, जगबीर सिंह, केवल कृष्ण खेर, विनय कुमार जैन एवं सुरेन्द्र सिंह । **कृषि उपकरण एवं यंत्रों के स्तर तथा प्रक्षेपण आकलन पर अध्ययन**, 21-32

- कृष्ण लाल, राजेन्द्र प्रसाद, विनोद कुमार गुप्ता एवं प्रमोद कुमार । प्रवृत्ति – मुक्त ब्लॉक अभिकल्पनाएँ एवं इनकी सरंचना, 33–38
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- सुरेन्द्र सिंह, अशोक कुमार, अमृत कुमार पॉल तथा राम नरेश । विभिन्न फार्मों पर रखने से संकरित गायों के विकास का अध्ययन एवं मूल्यांकन, 50–53
- जगबीर सिंह, कृष्ण कान्त त्यागी, केवल कृष्ण खेर, अशोक कुमार एवं विनय कुमार जैन । ऊर्जा उपयोग से खेती प्रथाओं, संसाधनों एवं गतिविधियों के विस्तार का आकलन, 54–58

Book Chapters

1. Bhardwaj, SP (2010). [Managing supply chain in agriculture sector](#), e-published in the proceeding of Second Annual Conference of the Indian Society of Agri-Business management held at IIM, Lucknow, 1-19.
2. Bhatnagar, Vasudha and Ahuja, Sangeeta (2010). [Robust clustering using discriminant analysis](#). *Advances in Data Mining: Applications and Theoretical Aspects*, Lecture Notes in Computer Science. Springer-Verlag Berlin, Heidelberg, **6171**, 143-157.

Project Reports

1. Alam, W, Rao, AR, Singh,P, Wahi, SD and Prabhakaran, VT (2010). [Some investigations on robust clustering procedures](#), IASRI, New Delhi.
2. Bhatia ,VK, Vasisht, AK, Singh, DR, Bhardwaj, SP, Kumar, Ashok , Arya, Prawin, Sivaramane N and Kaul, Sushila (2010). [An Analysis of Market integration of major agricultural commodities in India. A report of Sub-programme III: Policy Analysis and Market Intelligence of Visioning, Policy Analysis and Gender \(V-PAGe\) project under NAIP](#), IASRI, New Delhi.
3. Singh, Jagbir, Tyagi, KK, Kher, KK, Gupta, AK and Jain, VK (2010). [Estimation of extent of farming practices, resources and activities with energy use](#). IASRI/PR-05/2010, IASRI, New Delhi.
4. Kumar, Amrender, Ramasubramanian V and Agrawal, Ranjana (2010). [Neural network based forecast modeling in crops](#). IASRI/PR-07/2010, IASRI, New Delhi.

5. Lahiri, Alope, Gupta, VK, Rao, A Subba, Muralidharan, Y, Parsad, Rajender and Rathore, Abhishek (2010). [Planning, designing and analysis of experiments relating to AICRP on STCR](#). IASRI/PR-08/2010, IASRI, New Delhi.
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7. Kumar, Ashok and Bhardwaj, SP (2010). [Econometric study of long-run effect of public investment in irrigation on food grains productivity](#). IASRI/PR-10/2010, IASRI, New Delhi.
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9. Dahiya, Shashi, Goyal, RC, Chaturvedi, KK, Bharadwaj, Anshu, Jaggi, Seema, Varghese, Cini (2010). [An eLearning system for agricultural education](#). Technical Project Report. IASRI/PR-12/2010, IASRI, New Delhi.
10. Sharma, Anu, Varghese, Cini and Jaggi, Seema (2010). [Web based solution for partially balanced incomplete block designs](#). IASRI/PR-13/2010, IASRI, New Delhi.
11. Rai, Anil, Malhotra, PK, Jaggi, S, Chaturvedi KK, Farooqi, S and Sahoo, PM (2010). [Knowledge data warehouse for agricultural research](#). IASRI/PR-14/2010, IASRI, New Delhi.
12. Islam, SN, Farooqi, Samir, Chaturvedi, KK, Agarwal, Hari Om, Sikarwar, Harnam Singh (2010). [Strengthening, refining and implementation of expert system on wheat crop management](#). IASRI/PR-15/2010, IASRI, New Delhi.
13. Singh, DR, Arya, Prawin, Kumar, Ashok and Sivaramane, N (2010). [An econometric analysis of groundwater markets in Indo-Gangetic plains of India](#). IASRI/PR-16/2010, IASRI, New Delhi.
14. Kumar, Anil, Kaur, Rajinder and Sharma, VK (2010). [A Statistical investigation on production, economic and potential of crop sequences in different agro ecosystems](#). IASRI/PR-17/2010, IASRI, New Delhi.
15. Arora, Alka, Farooqi, Samir, Dahiya, Shashi, Singh, Balbir and Rai, Anil (2011). [Decision support system for manpower planning-PERMISSnet](#). IASRI/PR-01/2011, IASRI, New Delhi.
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1. Sharma, NK, Batra, PK, Gangwar, B, Parsad, Rajender (2010). [Fertilizer response ratios for different crops](#). IASRI/TB-01/2010. Joint publication of IASRI, New Delhi and PDFSR, Modipuram.

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1. [Early Warning System for Food Security](#). IASRI, New Delhi. (2010, Eds. Ranjana Agrawal).
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4. [Development of Expert Systems in Agriculture](#): IASRI, New Delhi (2010, Eds. Sudeep, RC Goyal, Alka Arora, Pal Singh, HO Agarwal and Pratap Singh).
5. [Research Methodology for Socio-Economic Surveys](#). Training programme for NCAER Research Personnel from 19 October to 4 November 2010 (2010, Eds. Seema Jaggi, Anil Rai and AR Rao).
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1. Parsad, Rajender, Dhandapani, A and Khandelwal, Manoj Kumar (2011). [SAS Macro for Analysis of Data from Augmented Block Designs](#). http://web.iasri.res.in/nars/Augmented_Macro/micro_sas.htm.

Other Periodical Publications

- [Annual Report of the Institute, 2009-10](#)
- [IASRI News \(published quarterly\)](#)