



List of Publications

Research papers

1. Agrawal, Ranjana and Sharma, SD (2004). Forecasting of rice crop production. *Ind. Farming*, **54(8)**, 53-56.
2. Ahmad, Tauqueer, Kathuria, OP and Rai, Anil (2004). Comparative study of farmer's eye estimate and crop cut estimate for general crop estimation surveys. *J. Ann. of Agril. Res.*, **25(3)**, 394-397.
3. Ahuja, Sangeeta, Parsad, Rajender, Gupta, VK and Malhotra, PK (2004). Statistical package for factorial experiments. *J. Ind. Soc. Agril. Statist.*, **58(3)**, 312-330.
4. Chandran, KP and Prajneshu (2004). Modelling rice productivity: Additive nonparametric regression approach. *Natl. Acad. Sci. Lett.*, **27**, 261-267.
5. Chandran, KP and Prajneshu (2004). Modelling effect of sunshine and temperature on rice (*Oryza sativa*) tiller production using non-parametric regression. *Ind. J. Agril. Sc.*, **74**, 563-565.
6. Dahiya, Shashi, Singh, Balbir, Arora, Alka and Farooqui, Mohd. Samir (2004). Web based Personnel Management Information System for Indian Council of Agricultural Research (ICAR). *J. Ind. Soc. Agril. Statist.*, **58(2)**, 244-252.
7. Desai, AG, Chattopadhyay, C, Agrawal, Ranjana, Kumar, A, Meena, RL, Meena, PD, Sharma, KC, Rao, M, Srinivasa, Prasad, YG, and Ramakrishna, YS (2004). Brassica juncea powdery mildew epidemiology and weather-based forecasting models for India – A case study. *J. Plant Diseases and Protection*, **111(5)**, 429-438.
8. Devraj and Chaturvedi, KK (2003). Internet for transfer of agriculture technology. *Agriculture Extension Review*, March-April, 3-6.
9. Dhekale, JS, Parsad, Rajender and Gupta, VK (2003). Analysis of intercropping experiments by using mixtures methodology. *J. Ind. Soc. Agril. Statist.*, **56(3)**, 260-266.

10. Giri, SS, Jaggi, Seema and Pathak, NN (2005). Feeding of grainless diets containing different nitrogen sources to crossbred growing bulls: effects on rumen fermentation pattern, microbial enzyme activity and ciliate protozoa population. *Animal Feed Sc. & Tech.*, **118**, 187-200.
11. Gupta, AK, Mogha, AK and Gupta, Rakesh (2004). A two unit active redundant system with two phase repair and correlated life times. *Aligarh J. Statist.*, **24**, 63-79.
12. Handa, DP, Jaggi, Seema, and Gill, AS (2004). Path analysis technique to assess the relationship of wheat yield with its components under agroforestry system. *Ind. J. Forestry*, **27(2)**, 145-147.
13. Handa, DP, Jaggi, Seema, Gill, AS and Singh, NP (2004). A correlation and path coefficient analysis of wheat components under multipurpose tree species. *Ind. J. Forestry*, **27(2)**, 148-150.
14. Handa, DP, Jaggi, Seema, Gill, AS and Singh, NP (2004). Impact of fruit trees on the yield of wheat crop. *Ind. J. Forestry*, **27(2)**, 141-144.
15. Islam, Shahanawazul, Agarwal, Hari Om and Farooqi, Samir (2004). IT in agriculture. *Yojna*, Nov. 2004, 28-30.
16. Jaggi, Seema, Handa, DP, Gill, AS and Singh, NP (2004). Land equivalent ratio for assessing yield advantages from agroforestry experiment. *Ind. J. Agril. Sc.*, **74(2)**, 76-79.
17. Jha, GK, Srivastava, AK and Rai, Anil (2004). Conditional inference under two phase sampling. *J. Ind. Soc. Agril. Statist.*, **58(2)**, 153-162.
18. Jha, GK, Srivastava, AK, and Rai, Anil (2004). Conditional inference under two phase sampling. *J. Ind. Soc. Agril. Statist.*, **58(2)**, 153-162.
19. Kandala, VM and Prajneshu (2004). Fitting allometric model using fuzzy least squares. *J. Mar. Biol. Assn.*, **46**, 120-123.
20. Kandala, VM and Prajneshu (2004). Fuzzy von Bertalanffy growth model for determining age-length relationship. *Ind. J. Fish.*, **51**, 55-59.
21. Kumar, Rajendra and Kapoor, JK (2003). Study of output-input ratios at various levels of cultural practices at optimum levels of fertilizer nutrients for various crops. *Ann. Agril. Res. New Series*. **24(4)**, 849-855.
22. Kumar, Sanjeev, Rao, AR and Bhatia, VK (2004). Bayesian estimation of heritability in animal breeding experiments under 2-way nested classification. *J. Ind. Soc. Agril. Statist.*, **58(3)**, 352-362.
23. Menon, Pramila, Gopal, Madhuban and Parsad, Rajender (2004). Dissipation of chlorpyrifos in two soil environments of semi-arid India. *J. Env. Sc. Health*, **B39(4)**, 517-531.
24. Menon, Pramila, Gopal, Madhuban and Parsad, Rajender (2004). The impact of chlorpyrifos and quinalphos on soil enzyme arginine deaminase activity in semi-arid groundnut (*arachis hypogaea l.*) fields of India. *J. Agril. Food Chem.*, ACS (American Chemical Society) Publication, **52**, 7370-7376.
25. Misra, AK, Om Prakash and Ramasubramanian, V (2004). Forewarning powdery mildew caused by *Oidium mangiferae* in mango (*Mangifera indica*) using logistic regression models. *Ind. J. Agril. Sc.* **74(2)**, 84-87.
26. Narain, Prem, Sharma, SD, Rai, SC and Bhatia, VK (2004). Estimation of socio-economic development in hilly states. *J. Ind. Soc. Agril. Statist.*, **58(1)**, 126-135.
27. Panwar, Sanjeev, Kumar, Anil and Farooqi, Samir (2004). Non- Linear growth modeling of apple productivity of different states in India. *J. Farm. Sys. Res. Dev.*, **10(1&2)**, 54-57.
28. Paul, Amrit Kumar, Singh, Indra and Bhatia, VK (2003). A note on estimation of heritabilities of different dairy characteristics of Kankrej breeds by different methods. *J. Animal Res.*, **37(2)**, 153-154.
29. Rajashekharappa, MT, Umesh, KB and Sivaramane, N (2004). Assessment of technical efficiency in arecanut production: An application of non-parametric linear programming. *Agril. Eco. Res. Review*, **17**, 121-129.
30. Ramasubramanian, V, Singh, Randhir and Rai, Anil (2001). An empirical investigation on the reliability of Jackknife estimation under two-phase sampling for stratification, *Ind. J. Appl. Statist.*, **6**, 1-11.
31. Satpati, Subrata Kumar and Parsad, Rajender (2004). Construction and cataloguing of nested partially balanced incomplete block designs. *ARS Combinatoria*, **73**, 299-309.
32. Sharma, SK, Mathur, DC, Ahuja, DL and Sethi, SC (2004). Estimation of production of vegetable crops based on partial harvest. *J. Haryana Eco.*, Karnal, **24(1-2)**, 145-146.
33. Singh, Randhir (2004). Application of remote sensing technology for crop yield estimation. *J. Ind. Soc. Agril. Statist.*, **57**, Special issue, 226-246.

34. Singh, Karan, Lal, SB and Ganesan, S (2003). Technology dissemination through digital videos for agril. machinery. *Agril. Ex. Rev.*, **15(5)**, 18-21.
35. Singh, N.Okendro, Rao, AR, Wahi, SD and Singh, VP (2004). Robustness of bootstrap estimates of variance of heritability of master samples in half-sib analysis. *Ind. J. Animal Gen. Breed.*
36. Singh, Rajendra, Lal, Krishan and Thomas, BF (2003). A note on analysis of location curves for unequal lactation lengths. *J. Ind. Soc. Agril. Statist.*, **56**, 253-259.
37. एस डी. वाही, प्रकाश लाल और वी. पी. सिंह (2004). भारतीय संकर और शुद्ध नस्ल की बकरियों में वृद्धि प्रारूप का अध्ययन, कृषि चयनिका (भा.कृ.अनु.प.) 3, 28 एवं 31.
38. सुशीला कौल (2004). भारत में खाद्यान उत्पादन-एक समीक्षा. कृषि चयनिका, अप्रैल-जून, 10-11 और 18-19.
39. Tiwari, AK, Deshpande, SN, Rao, AR, Bhatia, T, Mukhit, SR, Sriharsh, V, Lerer, B, Nimagaonkar, VL and Thelma, BK (2005). Genetic susceptibility to Tardive Dyskinesia in chronic schizophrenia subjects: I. Association of CYP1A2 gene polymorphisms. *The Pharmacogenomics Journal.* **5**, 60-69.
40. Tomar, Jitendra Singh, Jaggi, Seema and Varghese, Cini (2005). On totally balanced block designs for competition effects. *J. Appl. Statist.*, **32(1)**, 87-97.
41. Varghese, Cini and Sharma, VK (2004). A series of resolvable PBIB(3) designs with two replicates. *Metrika*, **60**, 251-254.
42. Vats, MR, Sehgal, DK and Mehta, DK (2004). Mid - course bifurcation of plots in long term fertilizer experiments. *J. Statist. Application*, **2(1)**, (New Series), 135-145.
43. Wahi, SD, Chand, Lal and Bhatia, VK (2004). A growth pattern study in crosses and pure Indian breeds of goats. *Ind. J. Animal Sc.*, **74(9)**, 955-958

Books

- Bathla, HVL, Tyagi, KK, Khatri, RS, Singh, Jagbir, Goyal, JP, Agarwal, SC and Sood, RM (2004). Agricultural Research Data Book.
- Sharma, SD, Srivastava, AK and Sud, UC (2004). Information Support. 168 pages. Volume 20 of the publication "State of the Ind. Farmer - A Millennium Study". 27 Volumes + CD-Rom. Book published by Academic Foundation, New Delhi in association with Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. of India.

Electronic Book

- The electronic book on Design and Analysis of Experiments has been compiled, edited developed and revised by Rajender Parsad, R. Srivastava and V.K. Gupta. The book now contained 63 lectures divided into 5 modules. The Chapters are now available in PDF format.

Book Chapters

1. Bhardwaj, SP (2004). Economic thought of Prof. VKRV Rao on economic development and growth with particular reference to Keynesian Multiplier Application to India Economy. *Great Ind. Economists Their Creative Vision for Socio-Economic Development*. Deep & Deep Publication Pvt. Ltd., 7, 371-376.
2. Bhardwaj, SP (2004). Ranade and His Economic Nationalism. *Great Ind. Economists Their Creative Vision for Socio-Economic Development*, Deep & Deep Publication Pvt. Ltd., 2, 278-282.
3. Dhillon, BS, Singh, M, Parsad, Rajender, Gupta, VK and Singh, BB (2004). Evaluation of plant genetic resources: Issues, Advances and Opportunities. In: Dhillon, B.S., Tyagi, R.K., Lal, A. and Saxena, S.(eds) *Plant Genetic Resource Management*. Narosa Publishing House, New Delhi, 242-265.
4. Ghosh, H and Pal, A (2004). Estimation of variance components in diallel crosses. *Recent Advances in Mating Designs*. Eds L.S.Kaushik and R.C.Hasija, Dhanpat Rai and Company (P) Ltd., New Delhi, 4.1 to 4.19.
5. Panda, DK, Parsad, Rajender and Sharma, VK (2004). Robustness of block designs for complete diallel crosses against interchange of a pair of crosses. In: *Recent Advances in Mating Designs*. Eds L.S.Kaushik and R.C.Hasija, Dhanpat Rai and Company (P) Ltd., New Delhi, 3.1-3.23.
6. Parsad, Rajender and Gupta, VK (2004). Optimal designs for diallel cross experiments: An overview. *Recent Advances in Mating Designs*. Eds L.S.Kaushik and R.C.Hasija, Dhanpat Rai and Company (P) Ltd., New Delhi, 1.1-1.28.
7. Prabhakaran, VT (2005). On probability of inadmissible estimates of heritability from different mating designs and procedures for improved estimation. Book Chapter. L.S. Kaushik and R. C. Hasija (Eds.), *Recent Advances in Mating Designs*. Dhanpat Rai and Company (P) Ltd., New Delhi.

Research Project Reports

1. Pilot study on cost of production of coconut in Kerala by *UC Sud, HVL Bathla, Jagbir Singh, GK Jha, DC Mathur, KK Kher, K Murlidharan, C Thamban and C.V. Sairam.*
2. Assessment of harvest and post harvest losses by *HVL Bathla, Anil Rai, RS Khatri, Jagbir Singh, Tauqueer Ahmad, GK Jha, Vipin Dubey et al.*
3. Planning, designing and analysis of experiments relating to AICRP on soil test crop response correlation by *Aloke Lahiri, VK Sharma, A Subba Rao, MR Vats, DK Mehta, Rajender Parsad and Sanjay Srivastava.*
4. Statistical investigation on the fertilizer use efficiency in relation to cultural practices by *Rajendra Kumar and JK Kapoor.*
5. A diagnostic study of design and analysis of field experiments by *Rajender Parsad, VK Gupta, PK Batra, R Srivastva, Rajinder Kaur, Ajit Kaur and Prawin Arya.*
6. Three associate class partially balanced incomplete block designs and their application to partial diallel crosses by *Cini Varghese, VK Sharma, Seema Jaggi and Anu Sharma.*
7. Studies on data processing techniques for statistical analysis of large field variability in hilly and salt affected soil regions. (NATP Report) by *VK Bhatia, and Rajender Parsad.*
8. Some empirical investigations to study the influence of fixed effects on the estimates of heritability by *SD Wahi and AR Rao.*
9. Impact assessment of technology intervention and crop diversification in tribal, backward and hilly areas (Programme 6) pertaining to Improvement in Migratory Sheep Production Programme for Tribal farmers in North-West, Annual Report (2003-2004), Division of Econometrics, IASRI, New Delhi, p 33 (2004). by *Sushila Kaul, and DR Singh.*
10. Impact assessment of technology intervention and crop diversification in tribal, backward and hilly areas. (Programme 6) pertaining to "Improvement in Migratory Sheep Production Programme for Tribal farmers in North-West", Annual Report (2004), Division of Econometrics, IASRI, New Delhi, December 2004, p 42 by *Sushila Kaul and DR Singh.*
11. PIMSNET Users Reference Manual, National Agril. Technology Project by *SD Sharma, PK Malhotra, RC Goyal, Sudeep Marwaha, Alka Arora, VH Gupta, Vikrant and Rajat.*
12. PIMSNET Technical Reference Manual, National Agricultural Technology Project by *SD Sharma, PK Malhotra, RC Goyal, Sudeep Marwaha, Alka Arora, VH Gupta, Vikrant and Rajat.*
13. Agricultural Statistician Network, Technical Report, National Agricultural Technology Project (2005) by *SD Sharma, PK Malhotra, RC Goyal, Sudeep Marwaha, Alka Arora.*