



Statistical Procedures for Agricultural Research, 2nd Edition

By Kwanchai A. Gomez, Arturo A. Gomez

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Here in one easy-to-understand volume are the statistical procedures and techniques the agricultural researcher needs to know in order to design, implement, analyze, and interpret the results of most experiments with crops. Designed specifically for the non-statistician, this valuable guide focuses on the practical problems of the field researcher. Throughout, it emphasizes the use of statistics as a tool of research—one that will help pinpoint research problems and select remedial measures. Whenever possible, mathematical formulations and statistical jargon are avoided. Originally published by the International Rice Research Institute, this widely respected guide has been totally updated and much expanded in this *Second Edition*. It now features new chapters on the analysis of multi-observation data and experiments conducted over time and space. Also included is a chapter on experiments in farmers' fields, a subject of major concern in developing countries where agricultural research is commonly conducted outside experiment stations. *Statistical Procedures for Agricultural Research*, Second Edition will prove equally useful to students and professional researchers in all agricultural and biological disciplines. A wealth of examples of actual experiments help readers to choose the statistical method best suited for their needs, and enable even the most complicated procedures to be easily understood and directly applied.

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- Sales Rank: #1795932 in Books
- Published on: 1984-02-03
- Ingredients: Example Ingredients
- Original language: English
- Number of items: 1
- Dimensions: 9.69" h x 1.59" w x 6.40" l, 2.59 pounds
- Binding: Hardcover
- 704 pages

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Editorial Review

From the Publisher

Designed for the nonexpert in statistics, this text presents a clear discussion of statistical methods for agricultural research and how to use them. Describes procedures for selecting appropriate experimental design, randomization and layout of experimental plots, data collection analysis, and presentation of results. Uses actual experiments as examples.

From the Inside Flap

Here in one easy-to-understand volume are the statistical procedures and techniques the agricultural researcher needs to know in order to design, implement, analyze, and interpret the results of most experiments with crops. Designed specifically for the non-statistician, this valuable guide focuses on the practical problems of the field researcher. Throughout, it emphasizes the use of statistics as a tool of research--one that will help pinpoint research problems and select remedial measures. Whenever possible, mathematical formulations and statistical jargon are avoided. Originally published by the International Rice Research Institute, this widely respected guide has been totally updated and much expanded in this Second Edition. It now features new chapters on the analysis of multi-observation data and experiments conducted over time and space. Also included is a chapter on experiments in farmers' fields, a subject of major concern in developing countries where agricultural research is commonly conducted outside experiment stations. *Statistical Procedures For Agricultural Research, Second Edition* will prove equally useful to students and professional researchers in all agricultural and biological disciplines. A wealth of examples of actual experiments help readers to choose the statistical method best suited for their needs, and enable even the most complicated procedures to be easily understood and directly applied. An International Rice Research Institute Book

From the Back Cover

The Agricultural Field Experiment A Statistical Examination of Theory and Practice S.C. Pearce Here is a comprehensive overview of the statistical knowledge needed to conduct successful field experiments on crops. Blending theory and practice, it covers a wide range of subjects from the fertility of fields and the allocation of resources to the cooperative efforts needed for a successful experiment. 1983 (0 471-10511-2) 335 pp. *Statistics for Experimenters An Introduction to Design, Data Analysis, and Model Building* George E. P. Box, William G. Hunter and J. Stuart Hunter This fresh approach to statistics focuses on applications in the physical, engineering, biological, and social sciences. Written for the non-statistician, the book emphasizes the need for the investigator to make his research as effective as possible through the proper choice and conduct of experiments, and the appropriate analysis of data. Included are numerous worked examples, exercises with answers), and end-of-chapter questions and problems. 1978 (0 471-09315-7) 653 pp.

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