

ESTADISTICA

Official Journal of the Inter American Statistical Institute

Vol. IX, No. 34

March 1952

Contents

- Utilización de los datos Censales en el Análisis de Mercados (Traducción)
Una Tasa Estandarizada para la Mortalidad, Definida en Unidades de Años de Vida
(Traducción)..... PHILIP M. HAUSER
Exposición sobre Investigaciones Enumerativas Generales—II (Traducción)
..... WILLIAM HAENSZEL
CATHERINE SENF
Is There Overlap in Requests from International Organizations for National Statistical
Information?
Características Demográficas: Principales Problemas Técnicos Relacionados con la
Aplicación de Algunos Estándares Recomendados para el Censo de las Américas
de 1950
Terminology of Concepts Relating to the Economically Active Population
Problemas Referentes a la Tabulación del Censo de Población de 1950; Parte I, Car-
acterísticas Demográficas Seleccionadas
A Program for Developing Industrial Statistics
Tabulaciones Adicionales sobre Familias
- Editorial Notes. Institute Affairs. Statistical News. Publications

Editor: Francisco de Abrisqueta

Inter American Statistical Institute, % Pan American Union, Washington 6, D.C., U. S. A.

JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION

June 1952
Vol. 47 No. 258

1108 16th Street, N. W., Washington 6, D. C.

- An Analysis of Some Failure Data..... D. J. DAVIS
Classification and Analysis of Partially Balanced Incomplete Block Designs with Two Asso-
ciate Classes..... R. C. BOSE AND T. SHIMANOTO
Replacing Variables in Correlation Problems..... VINCENT I. WEST
Operating Characteristics for Tests of the Stability of a Normal Population... JOHN E. WALSH
Multiple Sampling of Attributes..... D. S. ROBSON AND A. J. KING
Estimating the Product of Several Random Variables..... G. D. SHELLARD
Some Principles of Processing Census and Survey Data
..... ROBERT B. VOIGHT AND MARTIN KRIESBERG
Short-cut Methods of Estimating County Population..... ROBERT C. SCHMITT
Sampling Surveys in Central Africa..... J. R. H. SHAUL
Factors in the Accumulation of Social Statistics..... SOLOMON FABRICANT
Comparison of Selected Measures of Ability of Communities to Bear Tax Burdens
..... LORIN A. THOMPSON
A Critical Evaluation of Available Agricultural Statistics..... IVAN M. LEE
Prepaid Medical Care as a Source of Morbidity Data..... NEVA R. DEARDORFF
Some Cases in Which Yates' Correction Should not be Applied..... EDWIN L. CROW

ASA

The American Statistical Association invites as members all per-
sons interested in:

1. development of new theory and method
2. improvement of basic statistical data
3. application of statistical methods to practical problems.

BIOMETRIKA

A Journal for the Statistical Study of Biological Problems

Volume 39

Contents

Parts 1 and 2, June 1952

1. On the concurrence of a set of regression lines. By K. D. TOCHER.
2. The covering circle of a sample from a circular normal distribution. By H. E. DANIELS.
3. The construction of balanced designs for experiments involving sequences of treatments. By H. D. PATTERSON.
4. The interpretation of interactions in factorial experiments. By E. J. WILLIAMS.
5. Some exact tests in multivariate analysis. By E. J. WILLIAMS.
6. Experimental designs for serially correlated observations. By R. M. WILLIAMS.
7. Moment coefficients of the k -statistics in samples from a finite population. By JOHN WISHART.
8. Moment-statistics in samples from a finite population. By M. G. KENDALL.
9. The estimation of death-rates from capture-mark-recapture sampling. By P. A. P. MORAN.
10. Multifactorial designs of first order. By G. E. P. BOX.
11. On sampling from a population of rankers. By A. S. C. EHRENBERG.
12. Tests of significance in canonical analysis. By F. H. C. MARRIOTT.
13. A sampling test of the χ^2 theory for probability chains. By M. S. BARTLETT.
14. On mathematical analysis of style. By WILHELM FUCHS.
15. Regression, Structure and functional relationship. Part II. By M. G. KENDALL.
16. Least-squares estimation of location and scale parameters using order statistics. By E. N. LLOYD.
17. The time intervals between industrial accidents. By B. A. MAGUIRE, E. S. PEARSON and A. H. A. WYNN.
18. Comparison of two approximations to the distribution of the range in small samples from normal populations. By E. S. PEARSON.
19. The frequency justification of certain sequential tests. By G. A. BARNARD.
20. MISCELLANEA.
21. REVIEWS.

The subscription price, payable in advance, is 45s. inland, 54s. export (per volume including postage). Cheques should be drawn to Biometrika and sent to "The Secretary, Biometrika Office, Department of Statistics, University College, London, W.C. 1." All foreign cheques must be in sterling and drawn on a bank having a London agency.

ECONOMETRICA

Journal of the Econometric Society

Contents of Vol. 20, April, 1952, include:

- A. CHARNES, W. W. COOPER, AND B. MELLON Blending Aviation Gasolines—A Study in Programming Interdependent Activities in an Integrated Oil Company
- A. CHARNES Optimality and Degeneracy in Linear Programming
- M. J. FARRELL Irreversible Demand Functions
- A. DVORETZKY, J. KIEFER, AND J. WOLFOWITZ The Inventory Problem: I. Case of Known Distributions of Demand
- MICHIO MORISHIMA Consumer's Behavior and Liquidity Preference
- HERBERT A. SIMON On the Application of Servomechanism Theory in the Study of Production Control
- FRANK E. BOTHWELL The Method of Equivalent Linearization
- MARTIN SHUBIK A Business Cycle Model with Organized Labor Considered
- GERARD DEBREU Definite and Semidefinite Quadratic Forms
- M. HATANAKA Note on Consolidation Within a Leontief System
- ABRAHAM WALD On a Relation Between Changes in Demand and Price Changes
- Report of the Louvain Meeting. Report of the New Delhi and Patna Meetings. Book Reviews.

Published Quarterly

Subscription rates available on request

The Econometric Society is an international society for the advancement of economic theory in its relation to statistics and mathematics.

Subscriptions to *Econometrica* and inquiries about the work of the Society and the procedure in applying for membership should be addressed to William B. Simpson, Secretary, The Econometric Society, The University of Chicago, Chicago 37, Illinois, U. S. A.

MATHEMATICAL REVIEWS

A journal containing reviews of the mathematical literature of the world, with full subject and author indices

Publication of this journal is sponsored by the American Mathematical Society, Mathematical Association of America, Institute of Mathematical Statistics, London Mathematical Society, Edinburgh Mathematical Society, Union Matematica Argentina, and others.

Subscriptions accepted to cover the calendar year only.
Issues appear monthly except July. \$20.00 per year.

Send subscription order or request for sample copy to

AMERICAN MATHEMATICAL SOCIETY
80 Waterman Street, Providence 6, Rhode Island

JOURNAL OF THE ROYAL STATISTICAL SOCIETY

Series B (Methodological)

Contents of Volume 13, No. 2, 1951

DAVID G. KENDALL.....	Some Problems in the Theory of Queues
H. E. DANIELS.....	The Theory of Position Finding. (With Discussion)
W. R. BUCKLAND.....	A Review of the Literature of Systematic Sampling
V. P. GODAMBE.....	On Two-stage Sampling
B. V. SUKHATME.....	On Certain Probability Distributions Arising from Points on a Line
P. G. GUEST.....	The Estimation of Standard Error from Successive Finite Differences
E. H. SIMPSON.....	The Interpretation of Interaction in Contingency Tables
H. O. PATTERSON.....	Complex Contingency Tables Treated by the Partition of χ^2
S. ROSENBAUM.....	The Variance of Least-Square Estimates under Linear Restraint
H. D. PATTERSON.....	Change-over Trials
P. M. GRUNDY.....	A General Technique for the Analysis of Experiments with Incorrectly Treated Plots
D. J. FINNEY.....	Subjective Judgment in Statistical Analysis: An Experimental Study
G. H. JOWETT.....	

The Expression of the Complementary Outputs of Two Products in Terms of a Common Unit of Production Effort

J. DURBIN AND A. STUART.....	Inversions and Rank Correlation Coefficients
H. E. DANIELS.....	Note on Durbin and Stuart's Formula for $E(r_s)$

The Royal Statistical Society, 4, Portugal Street, London, W.C.2.

SKANDINAVISK AKTUARIETIDSKRIFT

1951 - Parts 3 - 4

Contents

G. ARFWEDSON

A Probability Distribution Connected
with Stirling's Second Class Numbers

T. DALENIUS AND M. GURNEY.....The Problem of Optimum Stratification. II.

HERMAN WOLD.....Demand Functions and the Integrability Condition

G. HARBITZ.....Post-war Mortality among Industrial Insured Lives in Norway

S. VAJDA.....Analytical Studies in Stop-Loss Insurance

KNUT MEDIN

The Sickness Experience of the Valkyrian Insurance Company, 1929-1948

PER OTTESTAD

On the Test of the Hypothesis that the Probability
of an Event Is Contained within Given Limits

Annual subscription: 10 Swedish Crowns (Approx. \$2.00).

**Inquiries and orders may be addressed to the Editor,
SKÄRVIKSVAGEN 7, DJURSHOLM (SWEDEN)**

SANKHYĀ

The Indian Journal of Statistics

Edited by P. C. Mahalanobis

Vol. 11, Part 2, 1951

The Estimation of Parameters in Certain Stochastic Processes... HENRY B. MANN

Statistical Inference Applied to Classificatory Problems... C. RADHAKRISHNA RAO

Multivariate Binomial and Poisson Distributions... A. S. KRISHNAMOORTHY

On Errors of Estimates in Various Types of Double Sampling Procedure... K. C. SEAL

Estimation of Parameters from Incomplete Data with Application to Design of

Sample Surveys... ABRAHAM MATTHAI

Confluent Hypergeometric Function... PRAN NATH

A Study of Recent Trend in Infantile Mortality Rates in Calcutta by Longitudinal

Survey... K. N. MITRA, B. BHATTACHARYA, K. DEY, C. S. DAWN,

M. OBADIAH, AND A. K. GAYEN

On the Non-Existence of Certain Difference Sets for Incomplete Group Designs

S. S. SHRIKHANDE

On the Non-Existence of Affine Resolvable Balanced Incomplete Block Designs

S. S. SHRIKHANDE

A Note on the Power of the Best Critical Region for Increasing Sample Size

D. BASU

Some Further Results on Errors in Double Sampling Technique... CHAMELI BOSE

A Note on Price-Wage Variations in Cottage and Factory Economy... G. C. MANDAL

Annual subscription: 30 rupees

**Inquiries and orders may be addressed to the
Editor, Sankhyā, Presidency College, Calcutta, India.**

THE INSTITUTE OF MATHEMATICAL STATISTICS

(Organized September 12, 1935)

OFFICERS FOR 1952

President:

M. A. GIRSHICK, Stanford University, Stanford, California

President-Elect:

M. H. HANSEN, Bureau of the Census, Washington, D. C.

Secretary-Treasurer:

To June 30, 1952

C. H. FISCHER, University of Michigan, Ann Arbor, Michigan

From July 1, 1952

K. J. ARNOLD, Michigan State College, East Lansing, Michigan

Editor:

T. W. ANDERSON, Columbia University, New York, New York

The purpose of the Institute of Mathematical Statistics is to stimulate research in the mathematical theory of statistics and to promote cooperation between the field of pure research and the fields of application.

Membership dues including subscription to the *ANNALS OF MATHEMATICAL STATISTICS* are \$10.00 per year within the United States and Canada and \$7.00 per year elsewhere. Dues and inquiries regarding membership in the Institute should be sent to the Secretary-Treasurer of the Institute.

MEETINGS OF THE INSTITUTE

SUMMER MEETING—EAST LANSING, MICHIGAN—September 2-5, 1952.

Abstracts must be in the hands of Associate Secretary K. J. Arnold, North Hall, University of Wisconsin, Madison 6, Wisconsin, not later than July 20, 1952.

ANNUAL MEETING—CHICAGO, ILLINOIS—December 27-29, 1952.