BIOMETRIKA

A Journal for the Statistical Study of Biological Problems

Vol. XXIV, Parts I, and II, January, 1947

CONTENTS

I. The variance of the overlap of geometrical figures with reference to a bombing problem. By F. Garwood. II. A study of a first dynasty series of Egyptian skulls from Sakkara and of an eleventh dynasty series from Thebes. By A. Barrawi and G. M. Morant. III. The generalization of 'Student's' problem when several different population variances are involved. By B. L. Welch. IV. The distribution of Kendall's 7 coefficient of rank correlation in rankings containing ties. By G. P. Sillitto. V. The use of range in place of standard deviation in the t-test. By E. Lord. VI. The frequency distribution of $\sqrt{g_1}$ for samples of all sizes drawn at random from a normal population. By R. C. Geary. VII. On the computation of universal moments of tests of statistical normality derived from samples drawn at random from a normal universe. Application to the calculation of the seventh moment of b_2 . By R. G. Geary and J. P. G. Worlledge. VIII. The asymptotical distribution of range in samples from a normal population. By G. Eleving. IX. Limits of the ratio of mean range to standard deviation. By R. L. Plackett. X. Significance tests for 2×2 tables. By G. A. Barnard. XII. The choice of statistical tests illustrated on the interpretation of data classed in a 2×2 table. By E. S. Pearson. XII. 2×2 tables. A note on E. S. Pearson's paper. By G. A. Barnard. XIII. The cumulants of the z and of the logarithmic z^2 and t distributions. By J. Wishart. XIV. The meaning of a significance level. By G. A. Barnard.

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. 15, No. 3, July, 1947

Page RICHARD M. GOODWIN: Dynamical Coupling with Especial Reference to Markets	
Having Production Lags	
Rene Roy: La distribution du revenu entre les divers biens	
HERBERT B. WOOLEY: The General Elasticity of Demand	
J. A. Nordin: Note on a Light Plant's Cost Curves	
LEONID HURWICZ: Some Problems Arising in Estimating Economic Relations 236	
T. W. Anderson: A Note on a Maximum-Likelihood Estimate 241	
C. RADHAKRISHNA RAO: Note on a Problem of Ragnar Frisch 245	
Published Quarterly Subscription: \$7.00 yer year	

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 Alfred Cowles, Secretary and Treasurer, The Econometric Society, The University of Chicago, Chicago 37, Illinois.

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. \$13.00 per year.

Send subscription order or request for sample copy to

AMERICAN MATHEMATICAL SOCIETY
531 West 116th Street, New York City 27

JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION

SEPTEMBER, 1947

Articles

On a Population Sample for Greece RAYMOND J. JESSEN, RICHARD H. BLYTHE, JR., OSCAR KEMPTHORNE AND W. EDWARDS DEMING
Estimating the Resident Alien Population of the United StatesE. P. HUTCHINSON AND ERNEST RUBIN
On the Use of Soviet Statistics
A Frequency Distribution Represented as the Sum of Two Poisson Distributions. Walter Schilling, M.D.
The Relation of Control Charts to Analysis of Variance and Chi-Square Tests. HENRY SCHEFFÉ
Problems in Providing Adequate Statistics on Business ProfitsSusan S. Burb
Sampling for the 1947 Survey of Consumer Finances
Contribution of Psychological Data to Economic AnalysisGeorge Katona
Statistical Methodology Index, No. 9 Oscar Krisen Buros

AMERICAN STATISTICAL ASSOCIATION 1603 K Street, N. W., Washington 6, D. C.

THE INSTITUTE OF MATHEMATICAL STATISTICS

(Organized September 12, 1935)

officers for 1947

President:

WILL FELLER, Cornell University, Ithaca

Vice-Presidents:

J. H. Curtiss, National Bureau of Standards M. H. Hansen, Bureau of the Census

Secretary-Treasurer:

PAUL S. DWYER, University of Michigan, Ann Arbor

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

Membership dues including subscription to the Annals of Mathematical Statistics are \$5.00 per year. The dues and inquiries regarding membership in the Institute should be sent to the Secretary-Treasurer of the Institute.